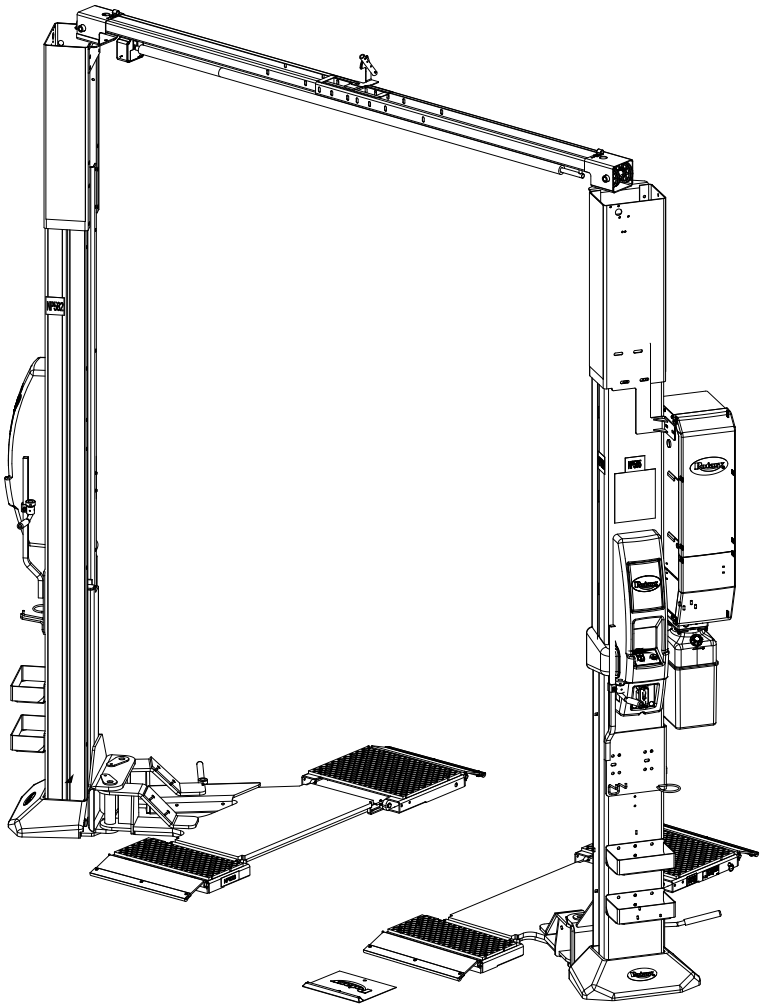
A7PiU

(7H0 Series)

Two Post Surface Mounted Lift

Capacity 7,000 lbs.



⚠IMPORTANT Reference ANSI/ALI ALIS, Safety Requirements for Installation and Service of Automotive Lifts before installing lift.

INSTALLATION INSTRUCTIONS

LP20314

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IN20666
Rev. F 2/13/2015

1. Lift Location: Use architects plan when available to locate lift. Fig. 1 shows dimensions of a typical bay layout.

2. Lift Height: See Fig. 2a for overall lift height of each specific lift model. Add 1" min. to overall height to lowest obstruction.

⚠WARNING DO NOT install this lift in a pit or depression due to fire or explosion risks.

3. Column Extensions: Before standing columns upright, install the column extensions using (12)3/8" x 3/4" Carriage bolts and flanged locknuts, Fig. 2a & 2b.
Overhead Mounting Bracket: Install Mounting Brackets to column extensions as shown, Fig. 2a.

4. Lift Setting: Position columns in bay using dimensions shown in Fig. 1. Notches are cut into each base plate to indicate center line of lift.

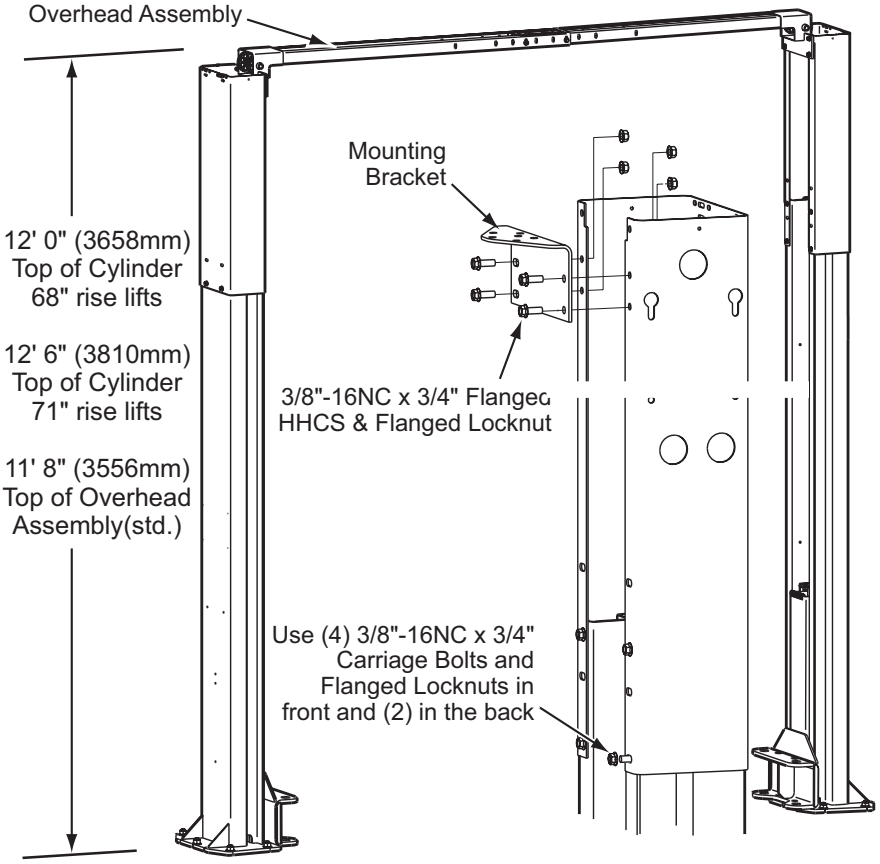


Fig. 2a

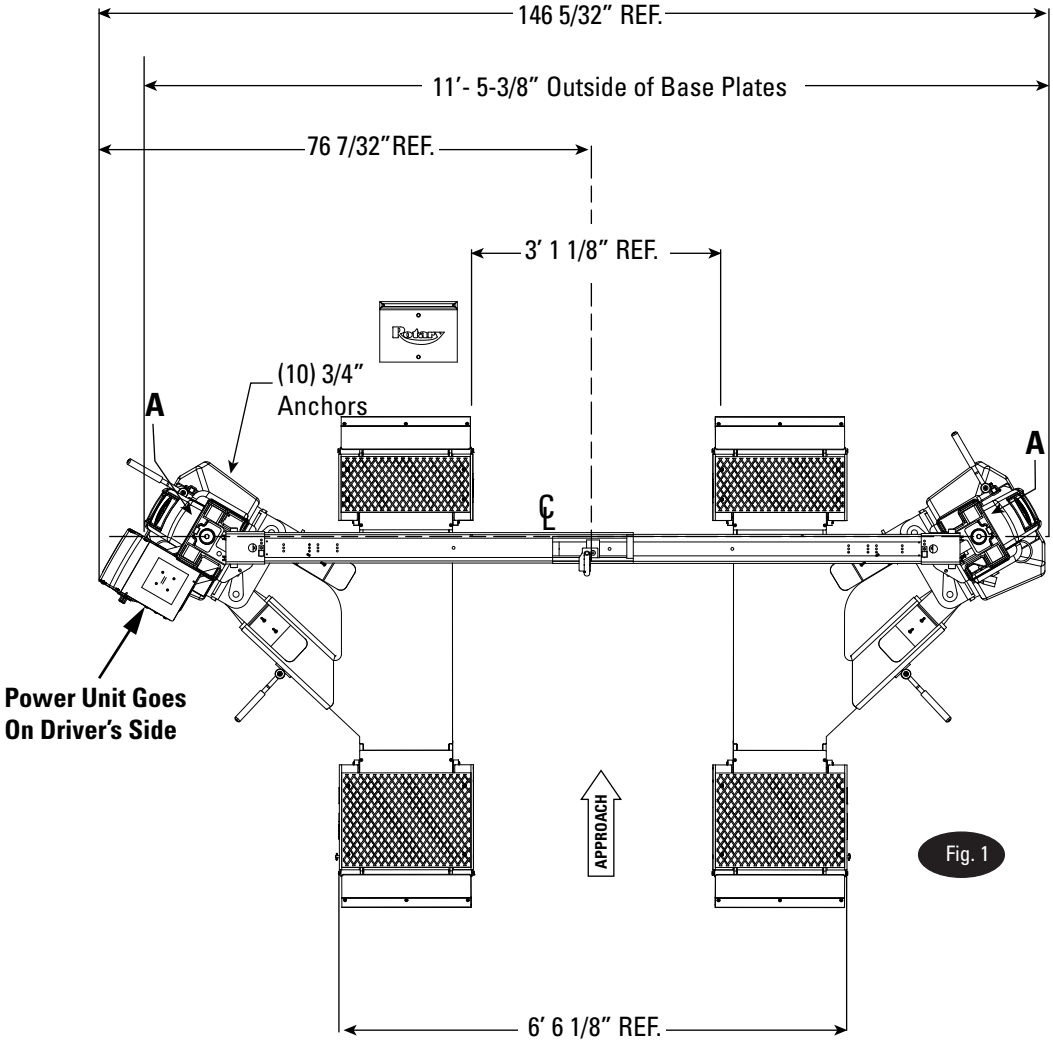

146 5/32" REF.
11'- 5-3/8" Outside of Base Plates
76 7/32" REF.
3' 1 1/8" REF.
(10) 3/4"
Anchors
A
A
℄
Power Unit Goes
On Driver's Side
APPROACH
6' 6 1/8" REF.

Fig. 1

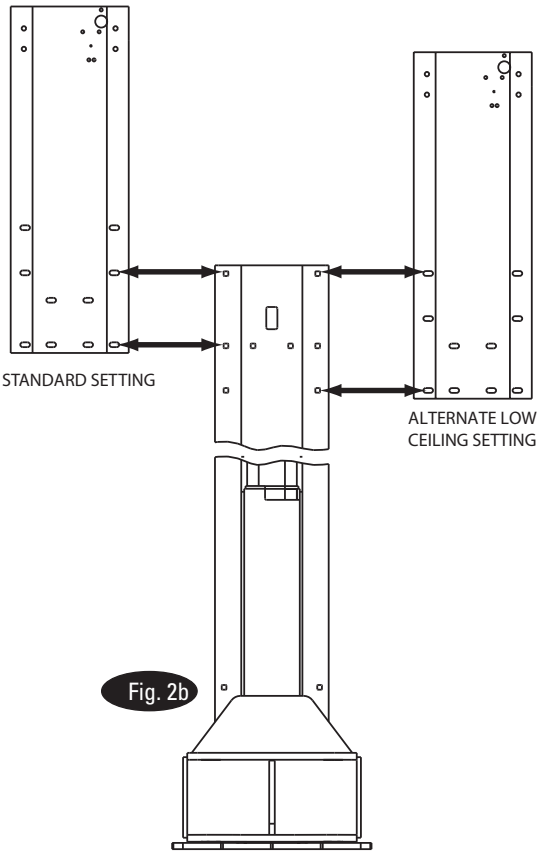

STANDARD SETTING
ALTERNATE LOW
CEILING SETTING

Fig. 2b

IMPORTANT **Drill only holes identified with "A" in Fig. 1, and install two (2) anchor bolts. The remainder of the anchors will be installed after runway pads are squared. See Figs. 3, 4 and 5 for drilling and anchoring instructions.**

Concrete and Anchoring: Concrete shall have a compression strength of at least 3,000 PSI and a typical slab thickness of 5-1/2" to 6". In order to achieve required anchor loads, a minimim concrete thickness of 4-1/4" and anchor embedment of 3-1/4" is required at each anchor location. When using the standard supplied 3/4" x 5-1/2" lg. anchors, if the top of the anchor exceeds 2-1/4" above the floor grade, you DO NOT have enough embedment. Drill (10) 3/4" dia. holes in concrete floor using holes in column base plate as a guide. See Fig. 3 and Fig. 4 for hole depth, hole spacing, and edge distance requirements.

5. IMPORTANT: Using the horse shoe shims provided, shim each column base until each column is plumb. If one column has to be elevated to match the plane of the other column, full size base shim plates should be used (Reference Shim Kit). Recheck columns for plumb. See Step 6 before installing washers and nuts on anchors. Tighten anchor bolts to an installation torque of 110 ft-lbs. Shim thickness MUST NOT exceed 1/2" when using the 5-1/2" long anchors provided with the lift. Adjust the column extensions plumb.

If anchors do not tighten to 110 ft-lbs. installation torque, replace concrete under each column base with a 4' x 4' x 6" thick 3000 PSI minimum concrete pad keyed under and flush with the top of existing floor. Let concrete cure before installing lifts and anchors.

NOTE: If more than 2 horse shoe shims are used at any of the column anchor bolts, pack non-shrink grout under the unsupported area of the column base.

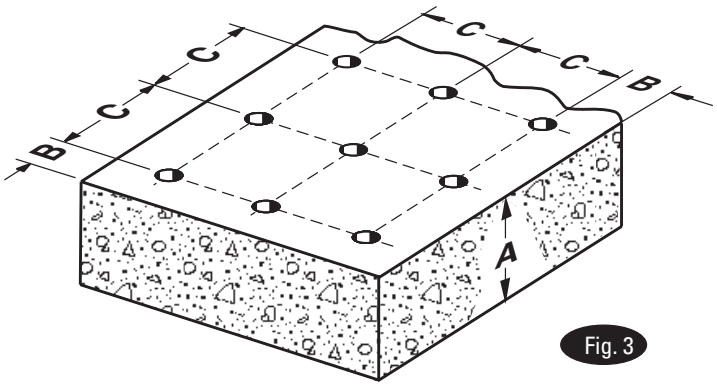
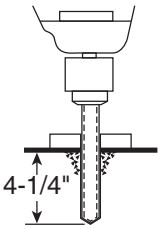
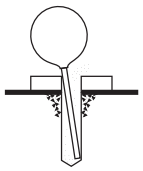


Fig. 3

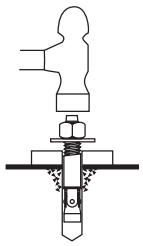
A) Concrete Thickness & Hole Depth 4-1/4" (108mm)
B) Edge Distance 4-3/4" (121mm)
C) Hole Spacing 6-1/2" (165mm)



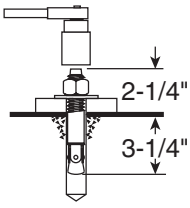
Drill hole using 3/4" carbide tipped masonary drill bit per ANSI standard B94.12.1977



Clean hole.



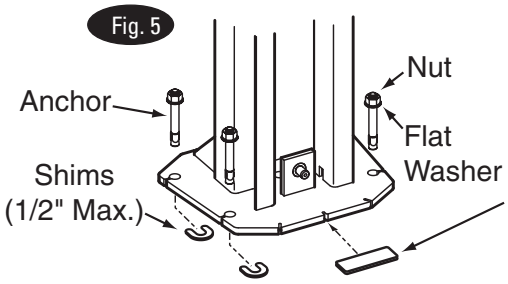
Run nut down just below impact section of bolt. Drive anchor into hole until nut & washer contact base.



Tighten nut with Torque Wrench to 110 ft-lbs. (149 N-m).

Fig. 4

Fig. 5



NOTE: Use rectangular shims at inside edge of baseplate. Use construction adhesive or silicon cement to hold shim in place. **INSURE** shims are held tightly between base plate and floor after torquing anchors.

SEISMIC - Varies by location consult with your structural engineer and manufacturer's representative.

***The supplied concrete fasteners meet the criteria of the American National Standard "Automotive Lifts - Safety Requirements for Construction, Testing, and Validation" ANSI/ALI ALCTV-2011, and the lift owner is responsible for all charges related to any additional anchoring requirements as specified by local codes. Contact customer service for further information at: 800.445.5438**

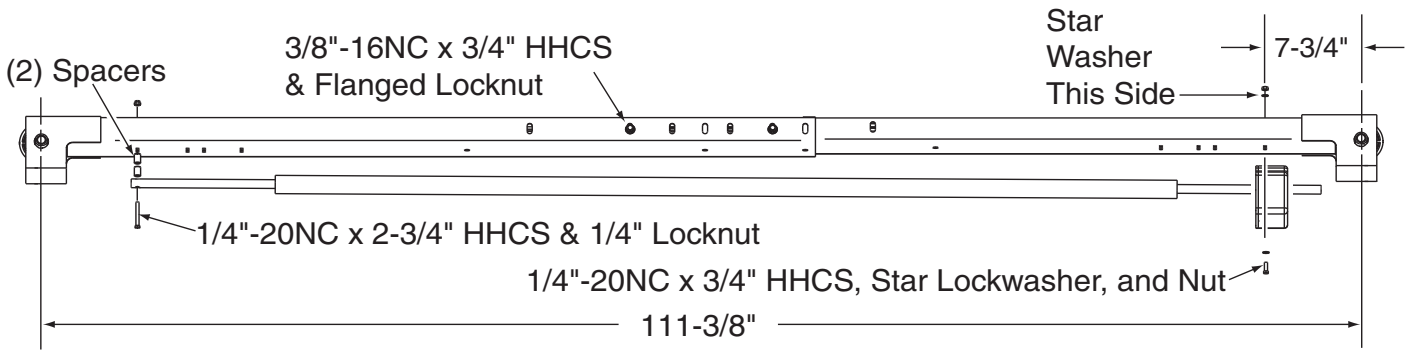
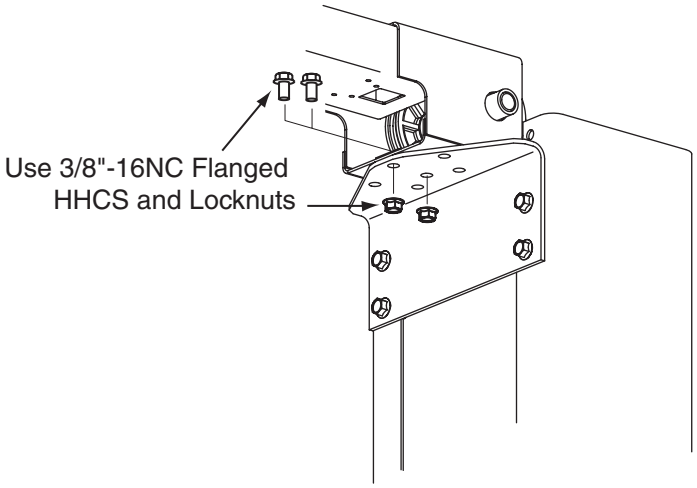


Fig. 6

6. Overhead Assembly: Fig. 6e: Adjust overhead to appropriate dimension. Install (4) 3/8"-16NC x 3/4" HHCS & 3/8"-16NC Flanged Locknuts, do not tighten. Slide Switch Box over switch bar ensuring knock out holes face the power unit column. Use (2) 1/4"-20NC x 3/4" lg. HHCS, 1/4"-20NC Nuts and 1/4" Star Washers to mount switch box to overhead, see Fig. 6c.

7. Continued Overhead Assembly: Insert 1/4"-20NC x 2-3/4" HHCS through pivot hole in end of switch bar. Insert opposite end of bar through slot in switch mounting bracket. Then secure HHCS and Switch Bar to overhead as shown, Fig. 6d, using (2) 3/4" spacers and 1/4"-20NC Locknut. Tighten Hex bolt leaving 1/16" gap between the spacer and the overhead assembly as shown below.



8. Overhead Installation: Install overhead assembly. Tighten bolts at center of overhead assembly.

9. Power Unit:

a. Mount power unit cabinet to driver side column.

Note: Air tool holder/tire hangers will not fit on passenger column if this is not done.

b. Put the (4) 5/16”-18NC x 1 1/2” Flanged Locking HHCS thru holes in the power unit bracket and splash shield using push-nuts to hold in place, Figure 7.

c. Mount power unit with motor up to the column bracket and install (4) 5/16” Flanged Locking Nuts.

10. DC Control Cabinet:

a. First, remove front plastic covers and lower cover, Figure 8, and set aside to be reinstalled later.

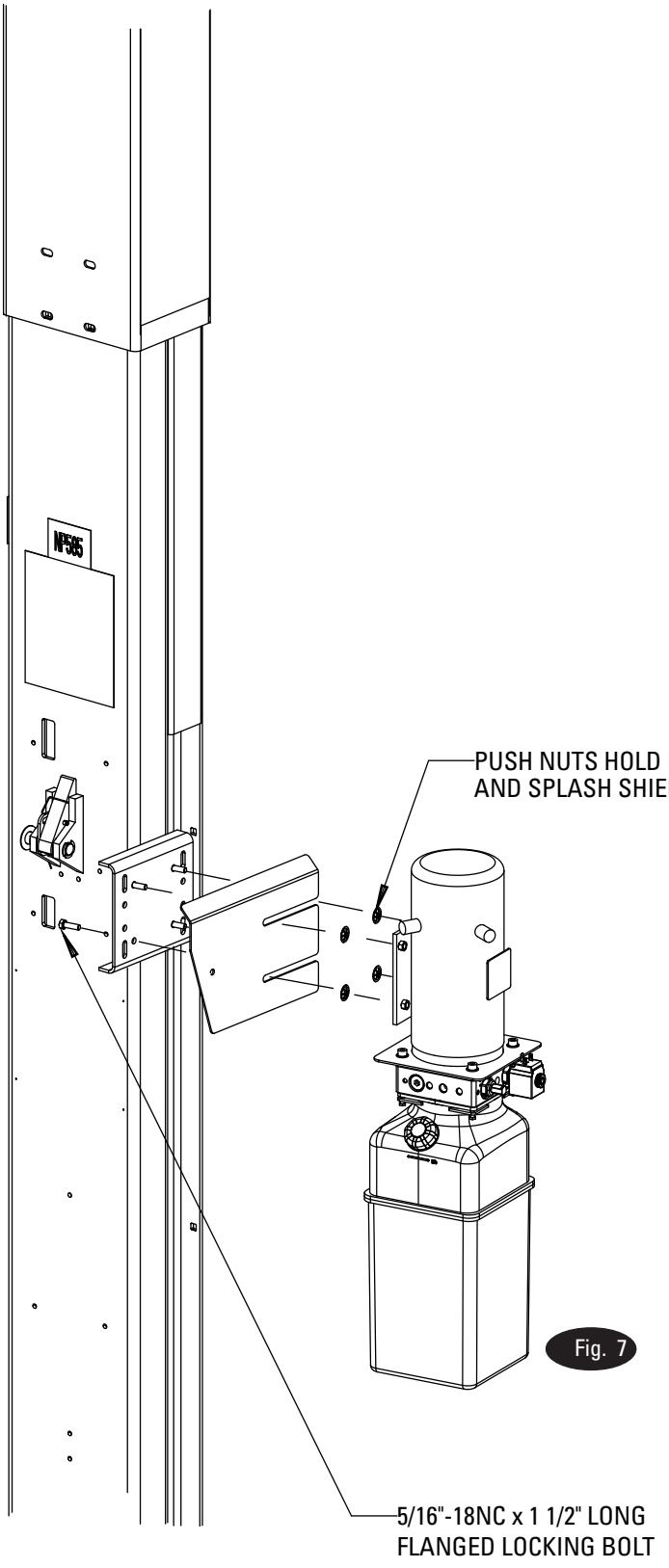


Fig. 7

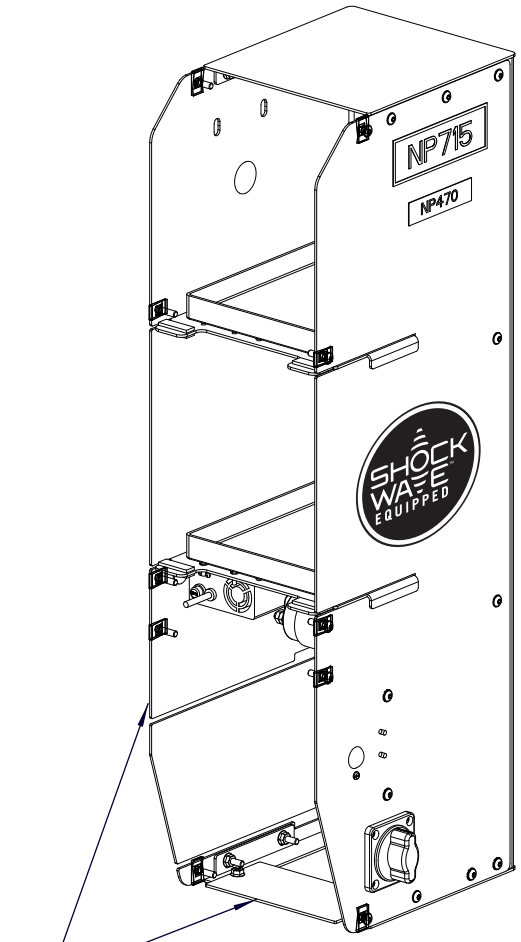


Fig. 8

b. Install included 3/8 NPT strain relief and nut to the back of the cabinet and route cables through the strain relief, Figure 9. The cables are shipped inside the DC control cabinet.

c. Mount DC control cabinet by sliding slots around the power unit bracket flanges, Figure 10a and 10b.

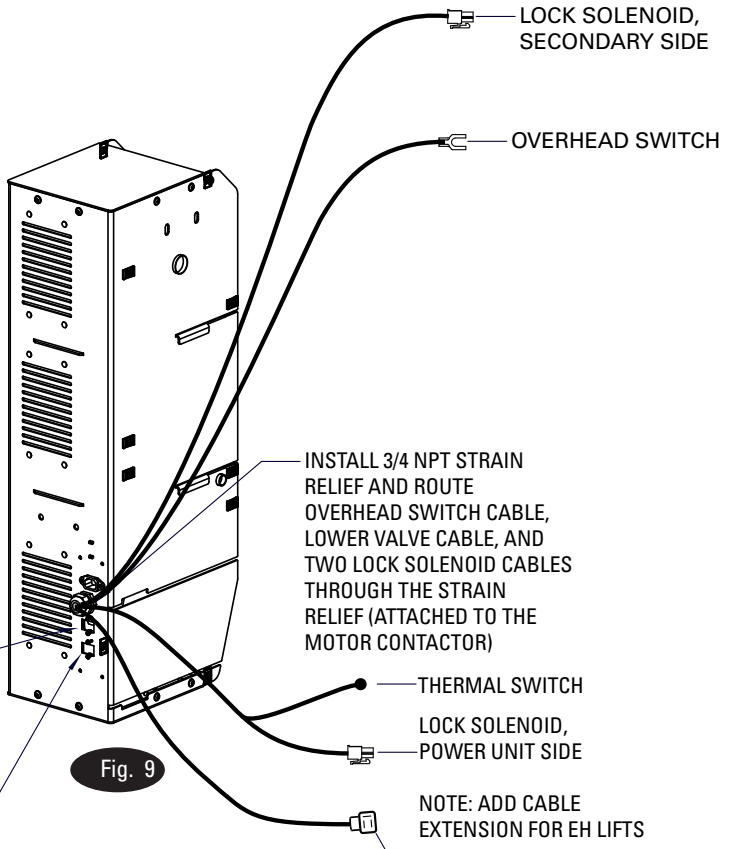


Fig. 9

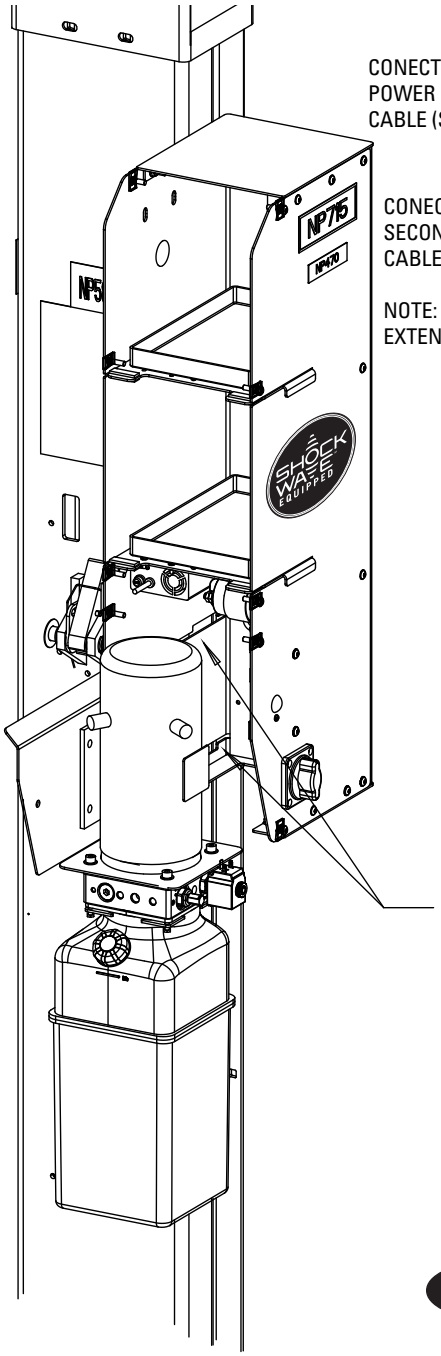
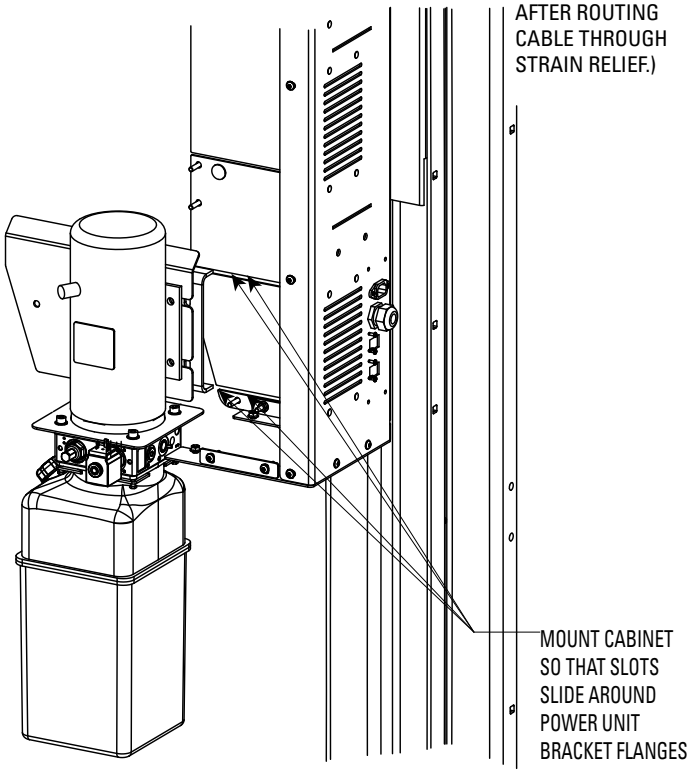


Fig. 10a



NOTE: SIDE PANEL NOT SHOWN

Fig. 10b

11. DC Control Cabinet Top Bracket:

a. Secure top of DC control cabinet by mounting it to the top of the column using the included z-shaped bracket. Fasten the left side of the cabinet to the top of the extension using the z-shaped bracket.

b. Fasten the bracket to the column, thru the extension, using the included longer (2) 3/8”-16NC x 1” long carriage bolts and (2) 3/8”-16NC flanged locknuts, Figure 11a.

c. Mount the bracket to the side of the cabinet using the included (2) 5/16”-18NC x 1” long bolts, (4) 5/16” USS flat washers and (2) 5/16”-18NC flanged lock nuts, Figure 11a.

d. The DC control cabinet should rest against the side of the column.

e. Fasten the included 5/16"-18NC x 1-1/2" full thread bolt and (2) 5/16"-18NC hex nuts to the splash shield as shown in figures 11b & 11c.

ATTENTION Do not overtighten the bolt an push the enclosure outward.

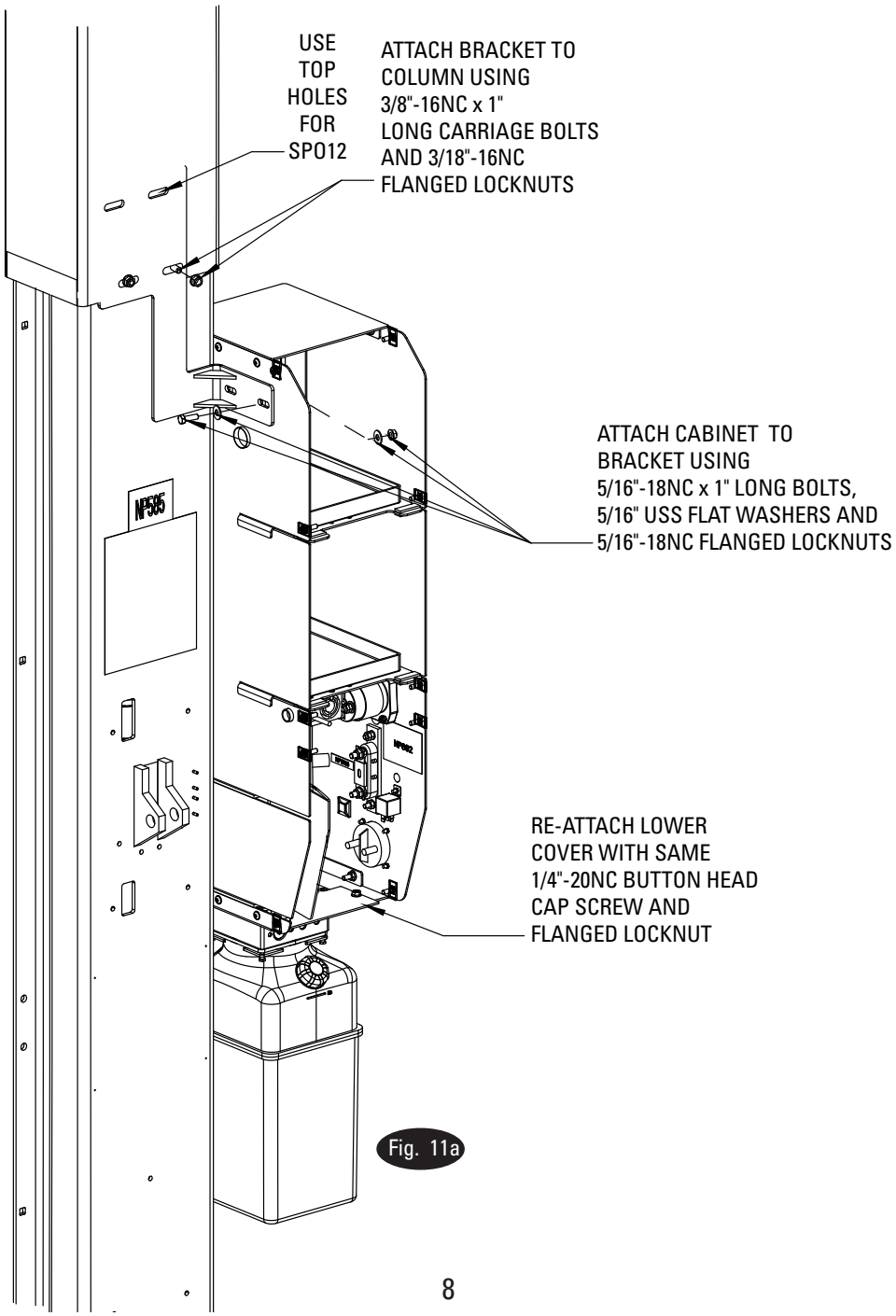


Fig. 11a

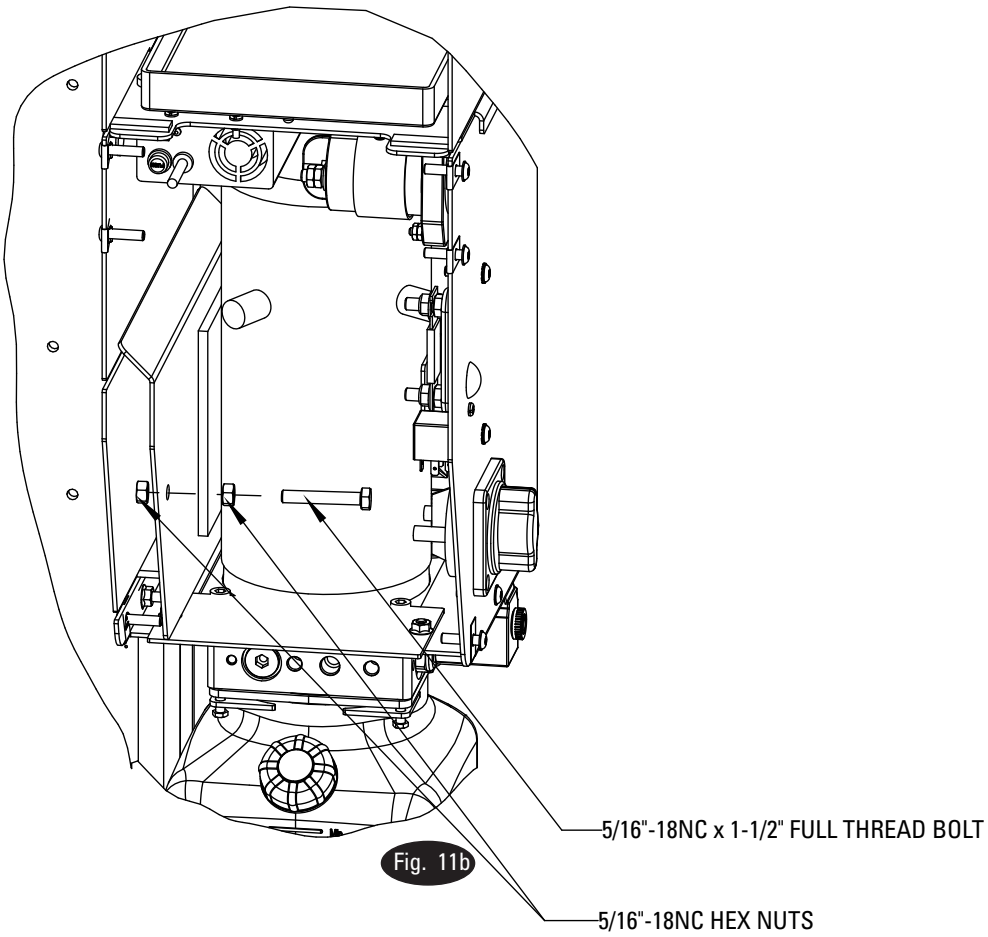


Fig. 11b

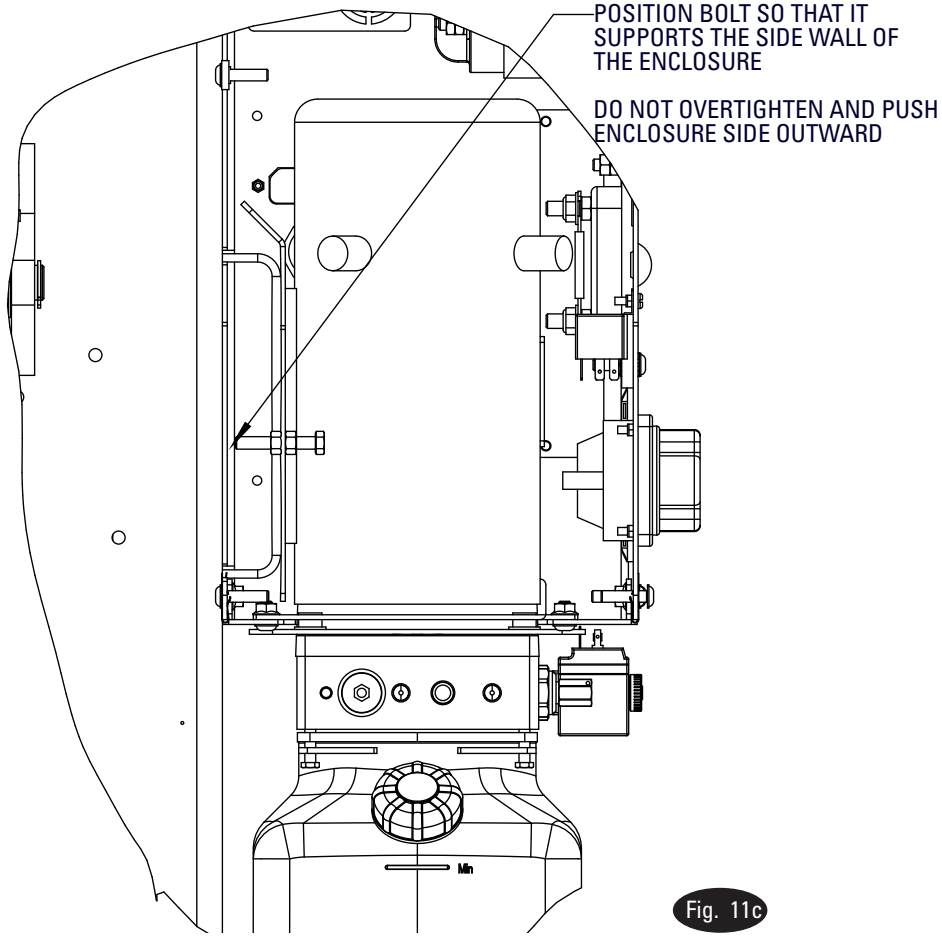


Fig. 11c

12. DC Control Cabinet Bottom Bracket:

a. Secure bottom of DC control cabinet by mounting it to the side of the column using the included brackets. Fasten the back side of the cabinet to the column using the (2) angle brackets.

b. Fasten the t-shaped bracket to the column, using the included longer (2) 3/8”-16NC x 1” long carriage bolts and (2) 3/8”-16NC flanged locknuts, Figure 12.

c. Fasten the remaining bracket to the back of the cabinet using the included (2) 5/16”-18NC x 1” long bolts, (4) 5/16” USS flat washers and (2) 5/16”-18NC flanged locknuts, Figure 12.

d. Attach the two brackets to each other using included (2) 5/16”-18NC x 1” long bolts, (2) 5/16” USS flat washers and (2) 5/16”-18NC flanged locknuts, Figure 12.

e. Re-attach the lower cover with the same ¼”-20NC button head cap screws and flanged locknuts, Figure 11a.

g. Re-attach top cover.

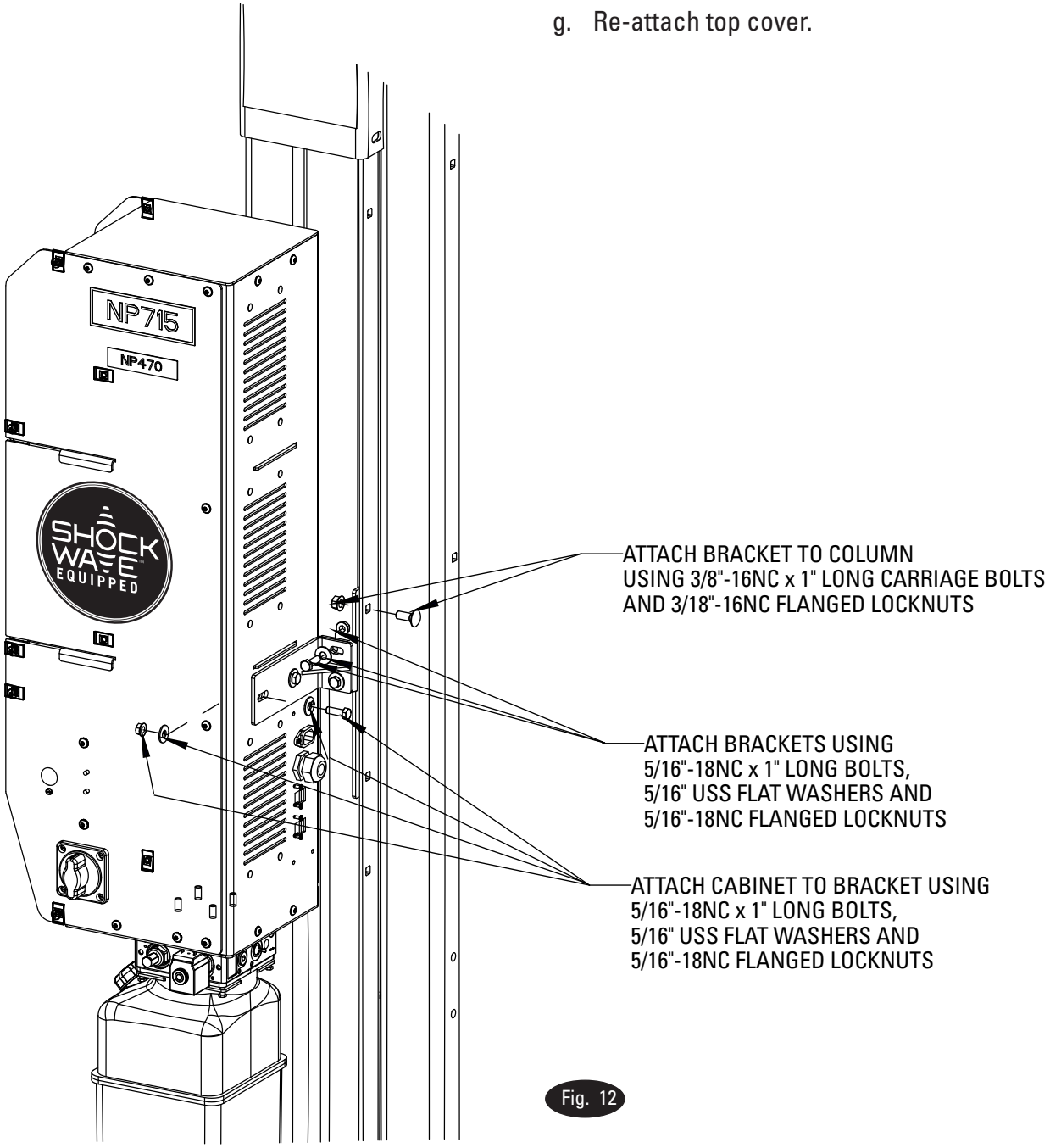


Fig. 12

13. Hydraulic Fittings and Flow Control:

a. Attach the included straight thread adapter, swivel elbow, flow regulator and JIC tee, as shown in Figure 13 The straight thread adapter is inserted in the port on the power unit manifold. Torque fittings to 26 Ft-lbs.

b. Route overhead hose from the top port of the JIC tee to the hydraulic cylinder inside the opposing column as shown in the standard lift instructions.

c. Route power unit hose from the bottom of the JIC tee to the hydraulic cylinder located inside this column.

d. Fasten the power unit hose to the column using the included ¼" hose clamp as shown in Fig. 13. Make sure that the power unit hose is adjusted so that it doesn't rub the lift carriage when in the down position.

IMPORTANT: Use the flared fittings tightening procedure included in the standard instructions.

14. Flared Fittings Tightening Procedure:

1. Screw the fittings together finger tight. Then, using the proper size wrench, rotate the fitting 2-1/2 hex flats.
   IMPORTANT Flare seat MUST NOT rotate when tightening. Only the nut should turn.
2. Back the fitting off one full turn.
3. Again tighten the fittings finger tight; then using a wrench, rotate the fitting 2-1/2 hex flats. This will complete the tightening procedure and develop a pressure tight seal.
   ⚠CAUTION Overtightening will damage fitting resulting in fluid leakage.

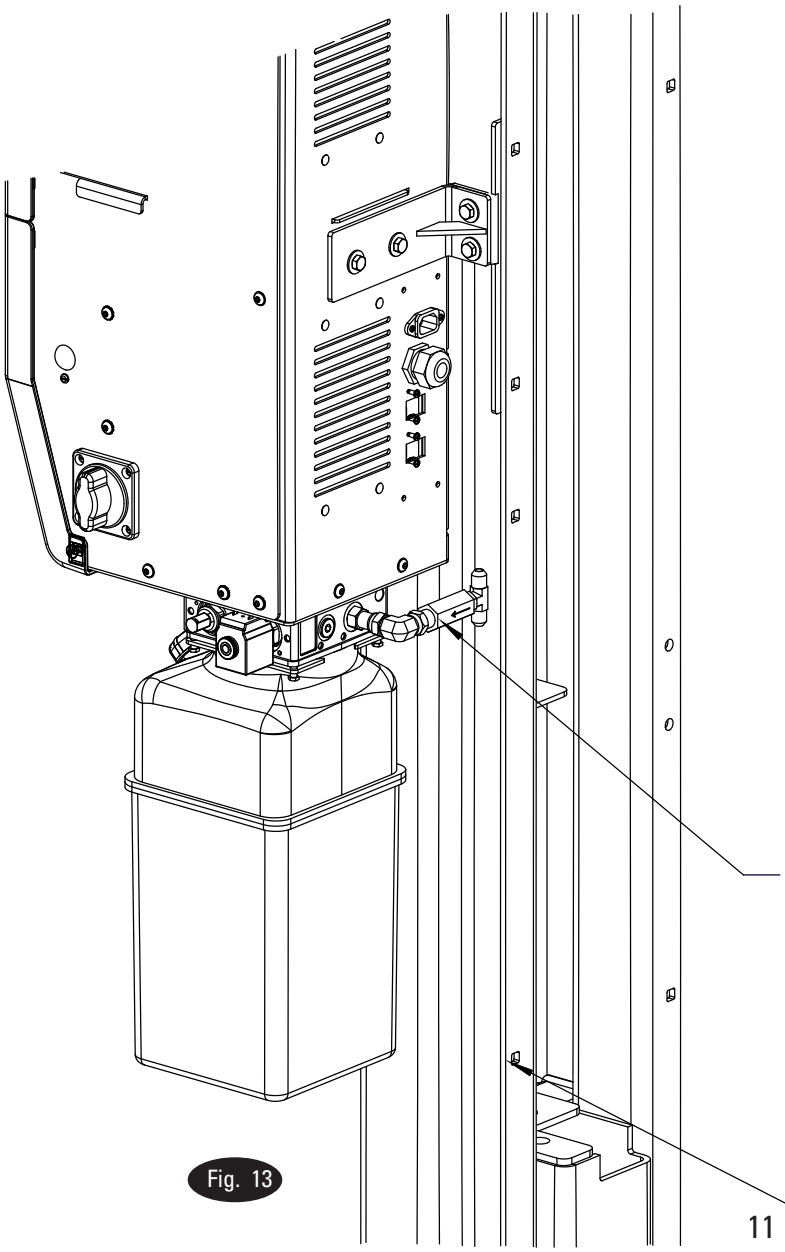


Fig. 13

15. Hoses: Clean adapters and hose. Inspect all threads for damage and hose ends to be sure they are crimped. Install hoses to Swivel Tee. Install hose using Flared Fittings Tightening Procedure. Install hose clamps.

Adapter & Hose Installation (see Fig. 10-13)

1. Install Pc. (2) with metal hose clamps, on power unit column side connecting it to the cylinder (1) first.
2. Install Pc. (3) with plastic hose clamps starting at opposite cylinder (1) and working toward the power unit. All excess hose should be at bends & inside overhead assembly.
3. Install Pc. (7) into power unit.
4. Install (4) onto (7).
5. Connect Pc. (2) & Pc. (3) to Tee (4).

NOTE: Route Power Unit hose inside columns using slots provided at column base, Fig. 14. Route Overhead Hose in column channel on outside of column, Fig. 14. Overhead hose goes over top end of overhead assembly, Fig. 15.

16. Oil Filling: Remove fill-breather cap on power unit. Fill to MIN___ line on tank with Dexron III ATF, or hydraulic fluid that meets ISO 32 specifications. Replace fill-breather cap.

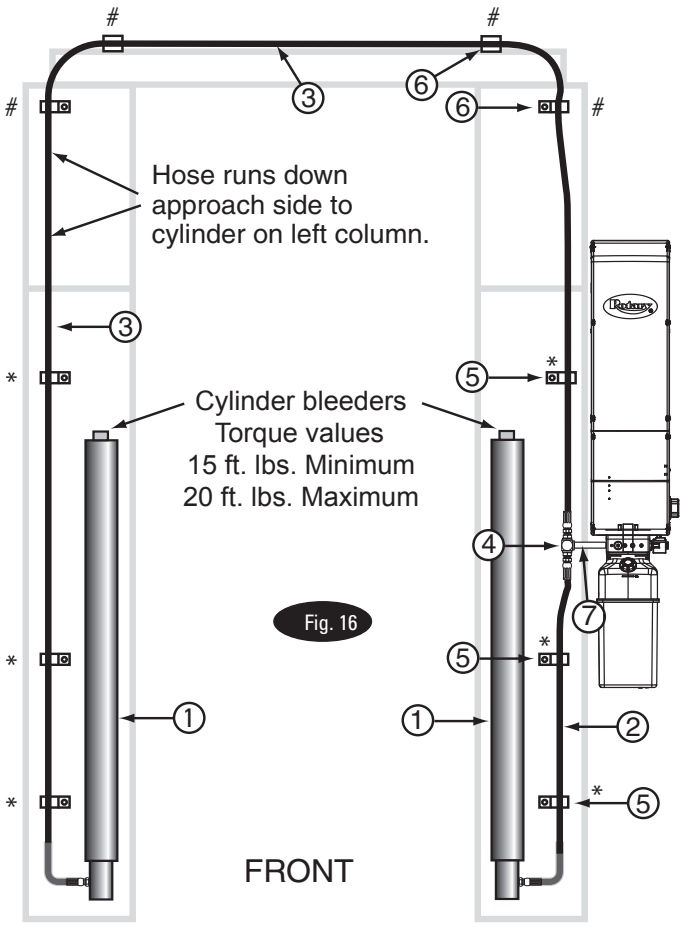


Fig. 16

ITEM	QTY.	DESCRIPTION
1	2	Hydraulic Cylinder
2	1	Power Unit Hose
3	1	Overhead Hose
4	1	Branch Tee
5	2	Metal Hose Clips
6	8	Plastic Hose Clips
7	1	Male Extension
	*6	3/8-16NC x 3/4" lg. Carriage Bolts
	*6	3/8"-16NC Flanged Locknuts
	#4	3/8-16NC x 3/4" lg. Flanged HHCS
	#4	3/8"-16NC Flanged Locknuts

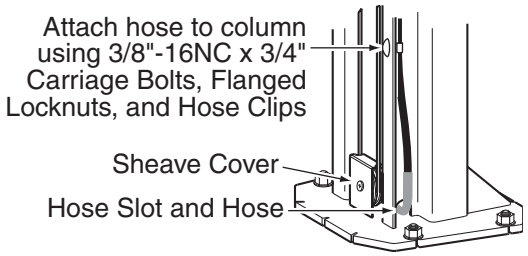


Fig. 14

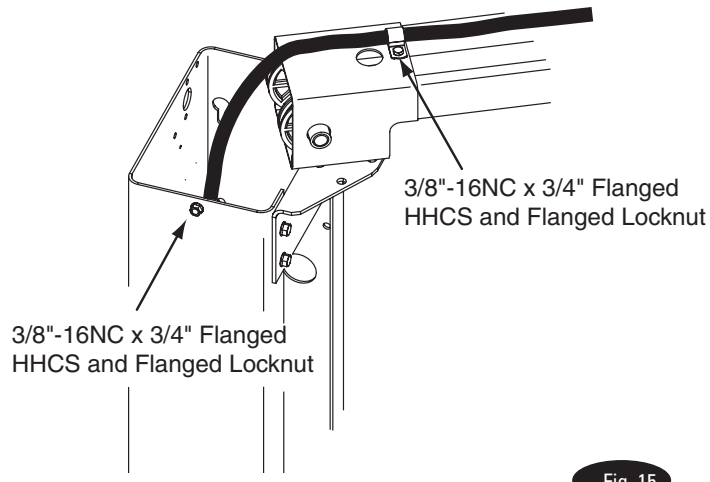


Fig. 15

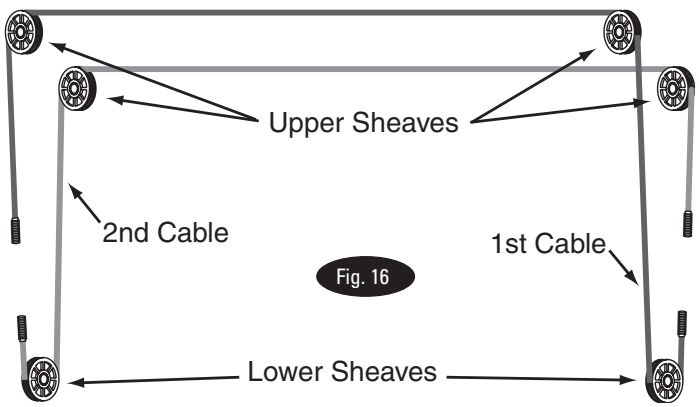
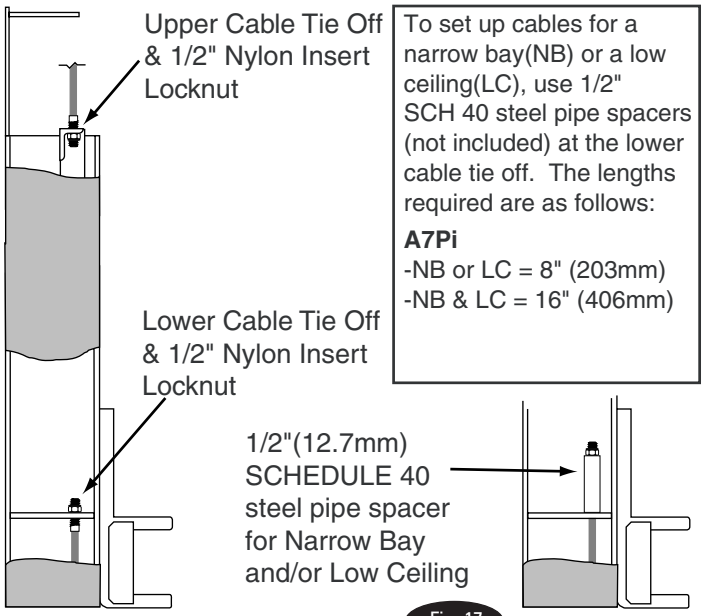


Fig. 16



To set up cables for a narrow bay(NB) or a low ceiling(LC), use 1/2" SCH 40 steel pipe spacers (not included) at the lower cable tie off. The lengths required are as follows:

A7Pi
-NB or LC = 8" (203mm)
-NB & LC = 16" (406mm)

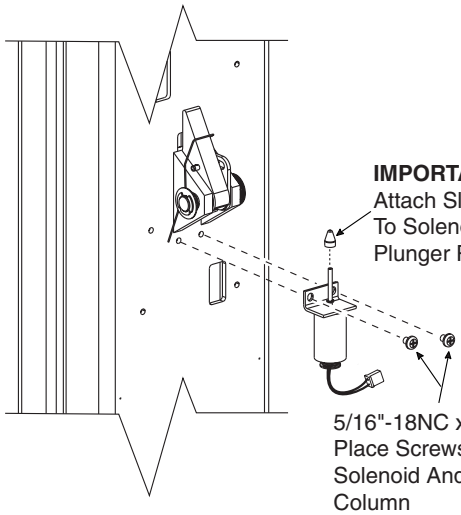
Fig. 17

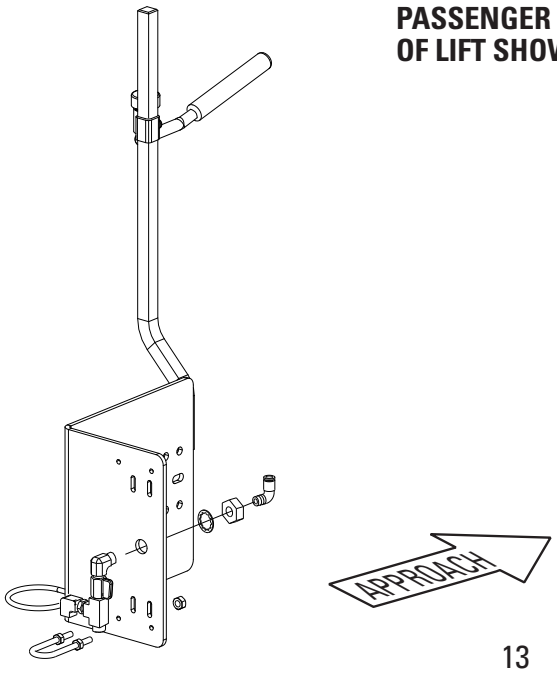
17. Equalizing Cables

A) Remove sheave cover.
B) Refer to Fig.16 for the general cable arrangement. First, run a cable end up through the small hole in the lower tie-off plate. Fig.17.
C) Push the cable up until the stud is out of the carriage top opening.
D) Run a nylon insert locknut onto the cable stud so 1/2" (13mm) of the stud extends out of the locknut.
E) Pull the cable back down, Fig. 17.
F) Run cable around the lower sheave, then up and around overhead sheave and across and down to the opposite carriage, Fig. 16. Install sheave cover, Fig. 14.
G) Fasten the cable end to the carriage upper tie-off bracket, Fig. 17. Tighten the locknut enough to apply light tension to the cable.
H) Repeat procedure for the second cable. Adjust the tension of both cables during the final adjustments in section 40.

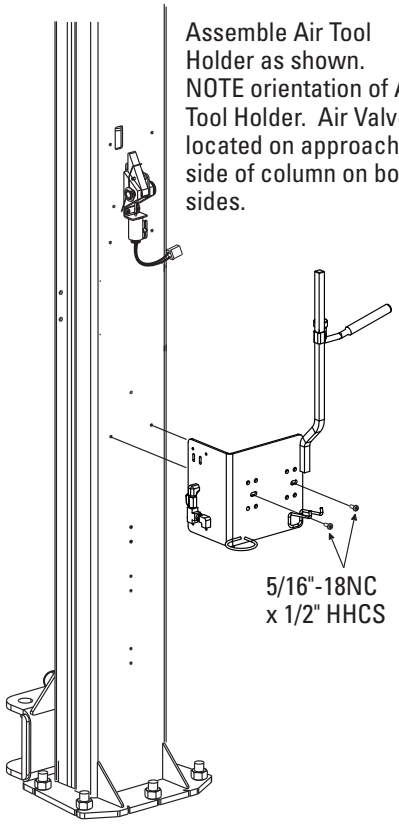
18. Installing inbay components

A) Place sliders onto solenoid plunger rods. Place solenoids onto columns under locking latches and tighten just enough to hold them in place. Push solenoids up as far as they will go (or until they contact latch) and tighten screws to hold in place.
B) Attach Manifold Ball Valve to Female Bulkhead as shown. Attach Bulkhead to Air Tool Holder. **Note orientation of Manifold Ball Valve as shown below and Fig. 28.** Attach 90º NPT to push in elbow to Bulkhead as shown. Ensure push in elbow points UPWARD. Attach air tool holder to column as shown below. Passenger side is shown. **Note orientation of Air Tool Holder as shown below and Fig. 28.** Manifold Ball Valve is located on approach side of both columns. Attach the long lead of the coil hose to the manifold and attach U-clamp as shown around pipe tee or coil hose nut.

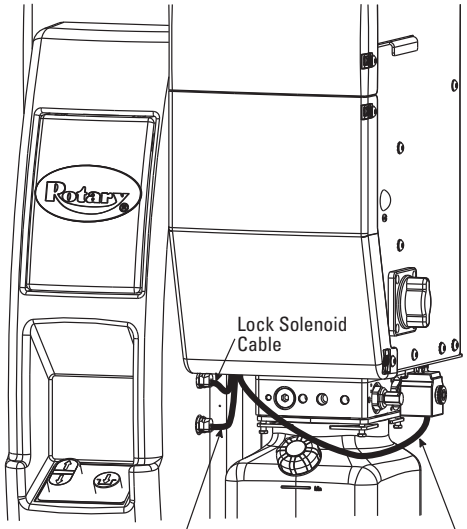




PASSENGER SIDE OF LIFT SHOWN



D) Installing Power Unit Side Control Panel: Install two 5/16"-18NC x 3/8" PHMS screws in holes on each side of the locking latch (power unit side) leaving approximately 1/8" exposed to hold the panel. Hang the panel on the 5/16"-18NC x 3/8" PHMS screws. Route lock solenoid cable and button cable through front panel as shown, Fig. 18. Plug lock solenoid cable to lock solenoid. Plug button cable to button harness inside panel. Install one 5/16"-18NC x 3/8" PHMS in bottom of master control panel. Tighten the upper two screws in top of panel and replace front panel.



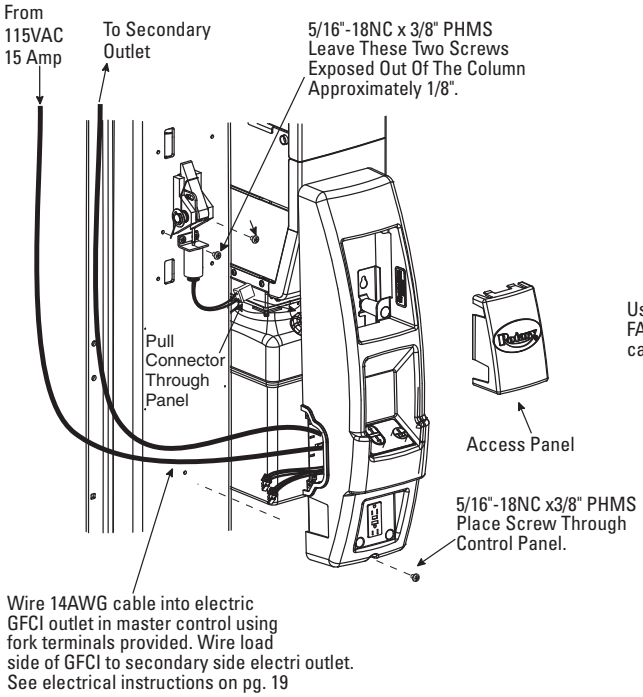
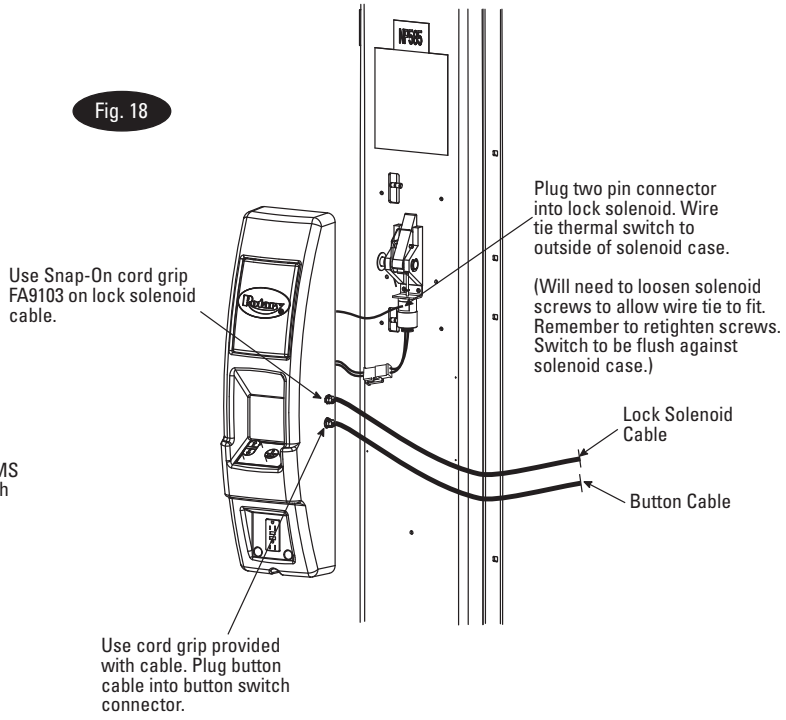


Fig. 18



E) Installing Secondary Control Panel: Remove access panel from the secondary control panel. Place two 5/16"-18NC x 3/8" PHMS screws in holes on each side of the locking latch leaving approximately 1/8" exposed to hold the panel, Fig. 19. Hang the secondary control panel over locking latch to column on the 5/16"-18NC x 3/8" PHMS screws and pull the locking latch solenoid wire through the panel, Fig. 20. Plug button cable into button harness inside panel, Fig. 20. Install one 5/16"-18NC x 3/8" PHMS in bottom of secondary control panel. Tighten the upper two screws in top of panel.

F) Remove plastic cover. Plug solenoid cable and button cable into connectors inside panel. Wire the electrical outlet using fork terminals provided. Outlet is protected by GFCI on power unit column.

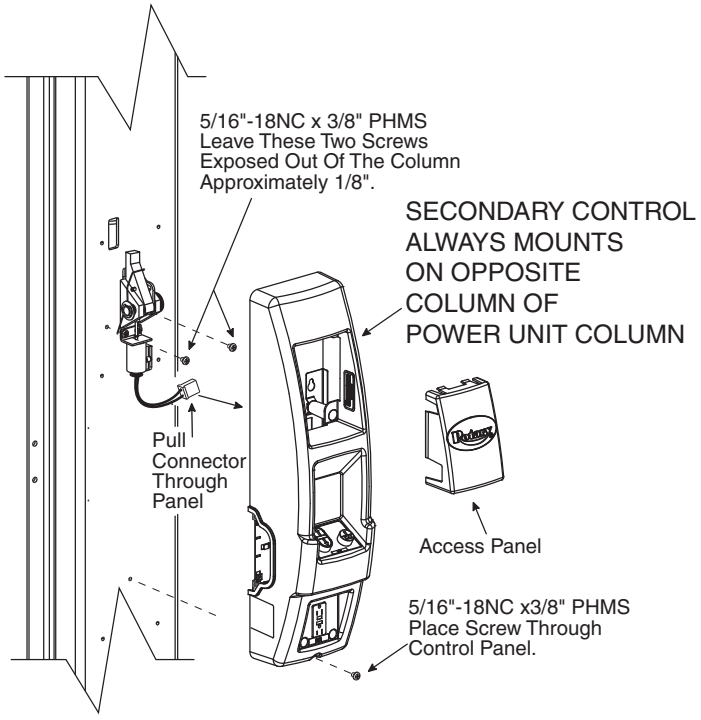


Fig. 19

Secondary Column

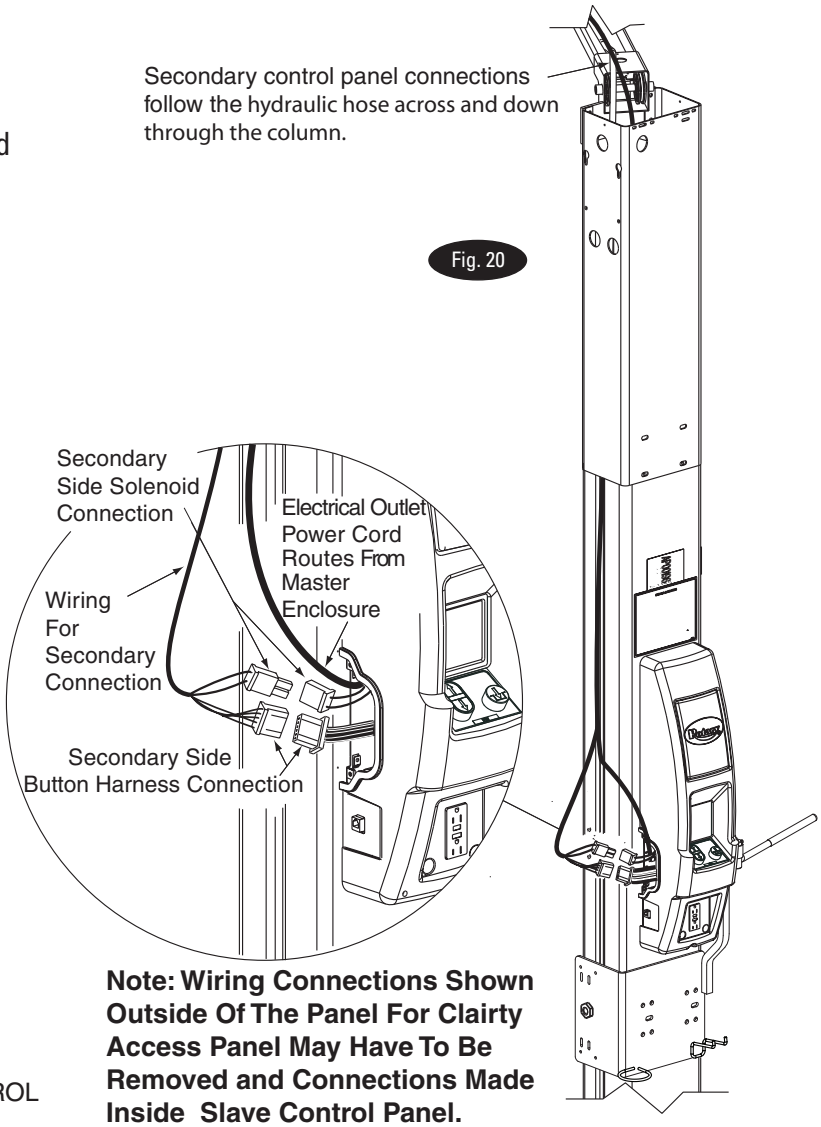


Fig. 20

Note: Wiring Connections Shown Outside Of The Panel For Clairty Access Panel May Have To Be Removed and Connections Made Inside Slave Control Panel.

NOTE: Use wire ties to fasten wiring away from equalization cables.

19. Group 24 Batteries: (2) 12 volt group 24 car batteries are required to operate the lift and are not included. The batteries must be mounted inside the cabinet using the included battery trays, Figure 21.

Recommended Battery Specifications
12V Automotive Battery
Size 24 Group Frame
525 Cold Cranking Amps
Terminals On Top

20. DC Control Cables:

a. First, make sure that the disconnect switch is in the "off" position. Refer to Figure 21 and the wiring diagram on the inside of the top plastic cover while fastening the following cables and wires.

b. Fasten the red FA7669 cable, shipped connected to the positive terminal of the motor, to the empty motor contactor terminal.

c. Attach the red FA7667 cable, shipped connected to the disconnect, to the positive terminal of the top battery using the included terminal connectors.

d. Connect the red FA7616 cable to the negative terminal of the top battery and positive terminal of the bottom battery using the included terminal connectors.

e. Connect the black FA982 ground wire, shipped connected to the ground post, to the negative terminal of the lower battery, using the included terminal connector.

f. Connect the black FA7668 cable to the negative terminal of the motor and the negative terminal of the lower battery.

⚠CAUTION Connect the black FA7668 cable to the motor last.

⚠CAUTION When removing batteries always disconnect black FA7668 ground cable first and reconnect last.

Figure 7 Cable Connections	
Follow these steps in order: Note wires and cables are labeled with a part number.	
Step 1 - Balloon 1	Attach included terminal connections to battery posts
Step 2 - Balloon 2	Motor contactor: Red FA7669 Cable
Step 3 - Balloon 3	Top battery positive terminal: • Red FA7667 Cable
Step 4 - Balloon 4	Top battery negative terminal: • Red FA7616 Cable
Step 5 - Balloon 5	Bottom battery positive terminal: • Red FA7616 Cable
Step 6 - Balloon 6	Bottom battery negative terminal: • Black FA982 Ground Wire • Black FA7668 Cable

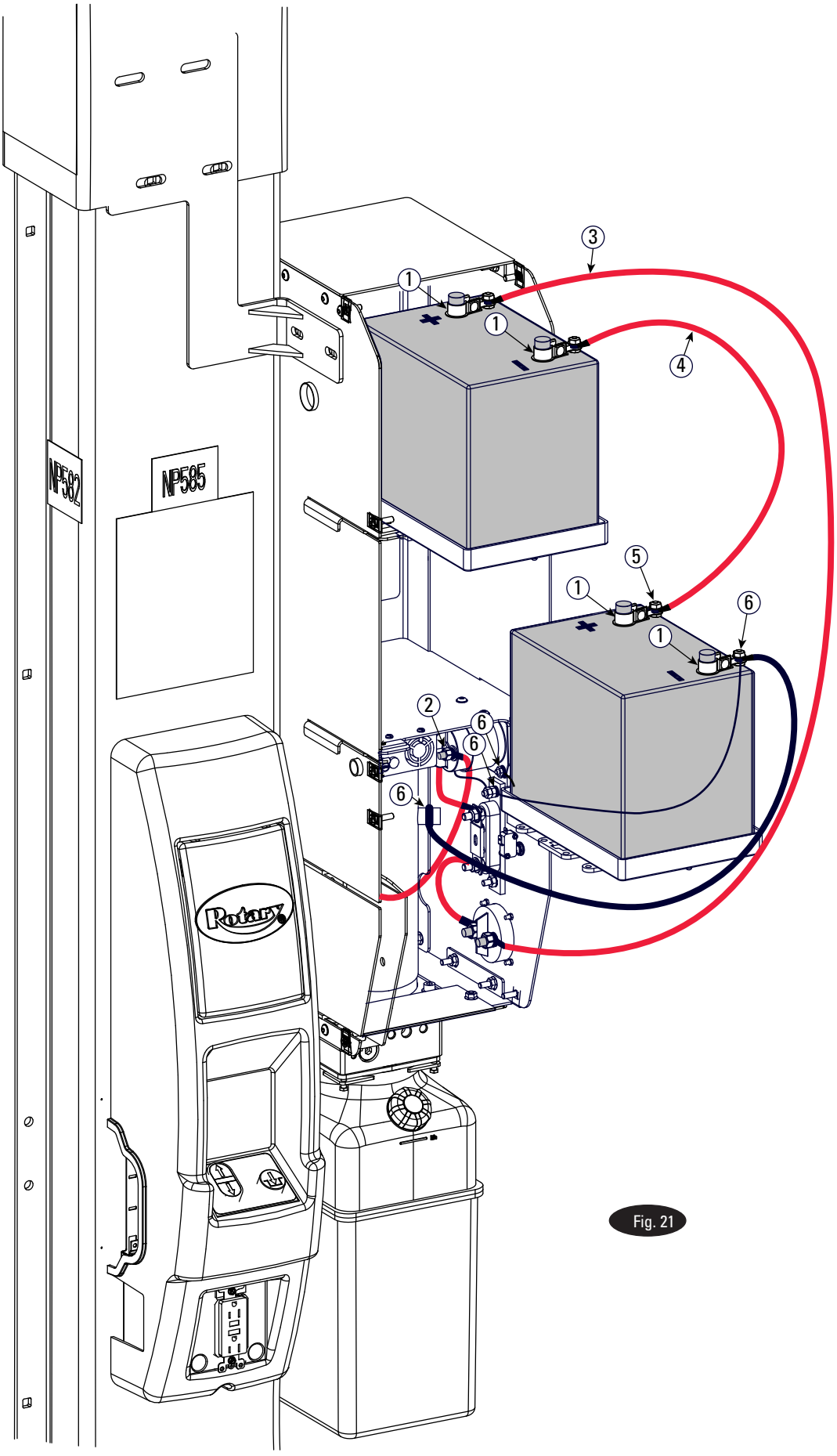


Fig. 21

g. Re-attach top and bottom cover, Figure 22.

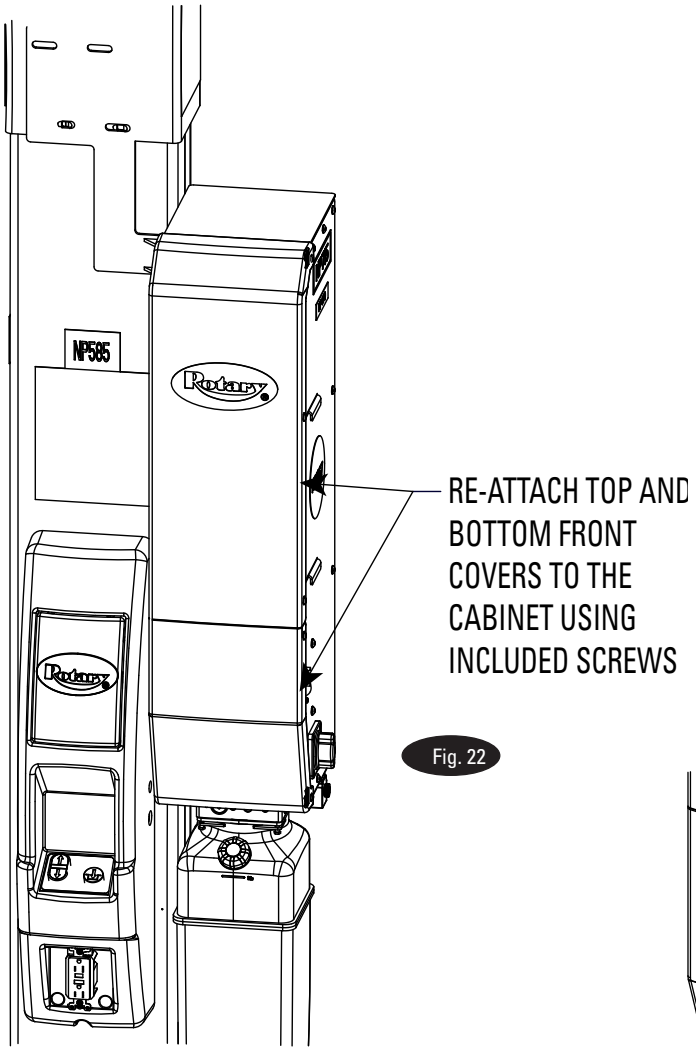


Fig. 22

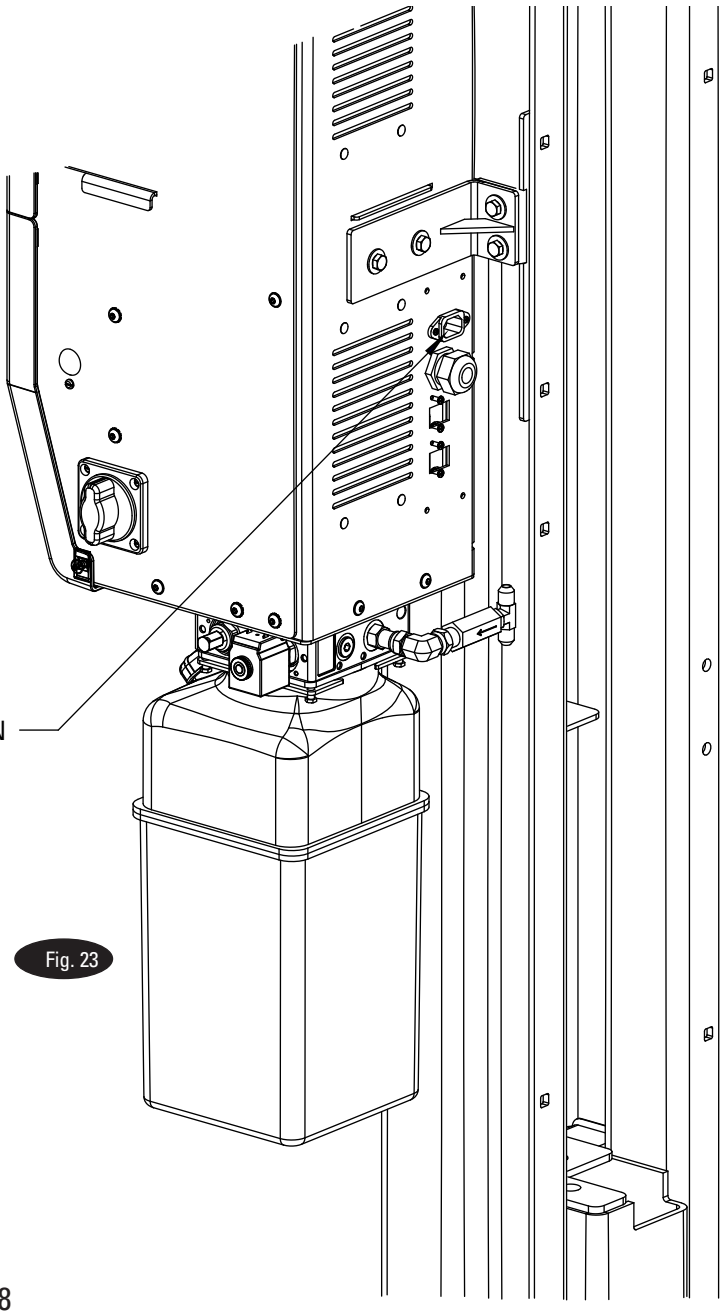


Fig. 23

21. Charger Cable & Overhead Switch Cable:

a. Plug the male end of the 10 foot charger cable into the receptacle on the back of the DC control cabinet.

22. Overhead Switch: Wire per figure below.

23. Receptacle:

a. Mount the receptacle box to the extension directly above the DC control cabinet with the included #12-24NC x 3/4" long pan head machine screws and nuts, Figure 25. Be sure to mount #12 star washers to one mountingscrew as shown in Figure 25. This is very important for grounding.

b. Remove the hole punch covering the hole in the receptacle box than lines up with the hole in the extension. Mount the included 1/2" cord grip thru the hole in the extension and receptacle box.

c. Mount the included ground wire hook terminal using the included green self-tapping ground screw through the grounding hole in the receptacle box.

d. Fasten the receptacle to the receptacle box cover with the included fastener and the cover to the box with the included fasteners. The ears on the top and bottom of the receptacle may need to be removed to allow it to fit inside the cover properly. Fasten the tinned end inside the ground terminal of the receptacle.

24. Electrical: Have a certified electrician run appro priate power supply to the 120 volt 15 amp recep tacles mounted at the top of the lift.

LIFT ELECTRICAL INPUT: 110-120 Volt, 60 Hz, 3.15 Amps

25. Control Panel Wiring: Supply 120 volt, 15 amp service to receptacles. 14AWG SJO cable is provided to wire from overhead box receptacles. Receptacles may be wired to share a circuit with charger and laser. Note Lift Electrical Input.

26. Laser Spotter: Mount the laser using the instructions included with the laser spotting kit.

28. Plug-in Laser and Charger:

a. Plug wires receiver for the laser in the bottom receptacle and wire tie to the receptacle box, Figure 25.

b. Plug the charger cable into the top receptacle. Check to make sure the charger lights are on. If charger lights are not on, flip switch on back of charger.

c. Plug the laser cable into the outlet on the bottom of the receiver.

28. Close DC Control Cabinet: Re-attach the front plastic covers to the DC control cabinet using same button head screws, Figure 22.

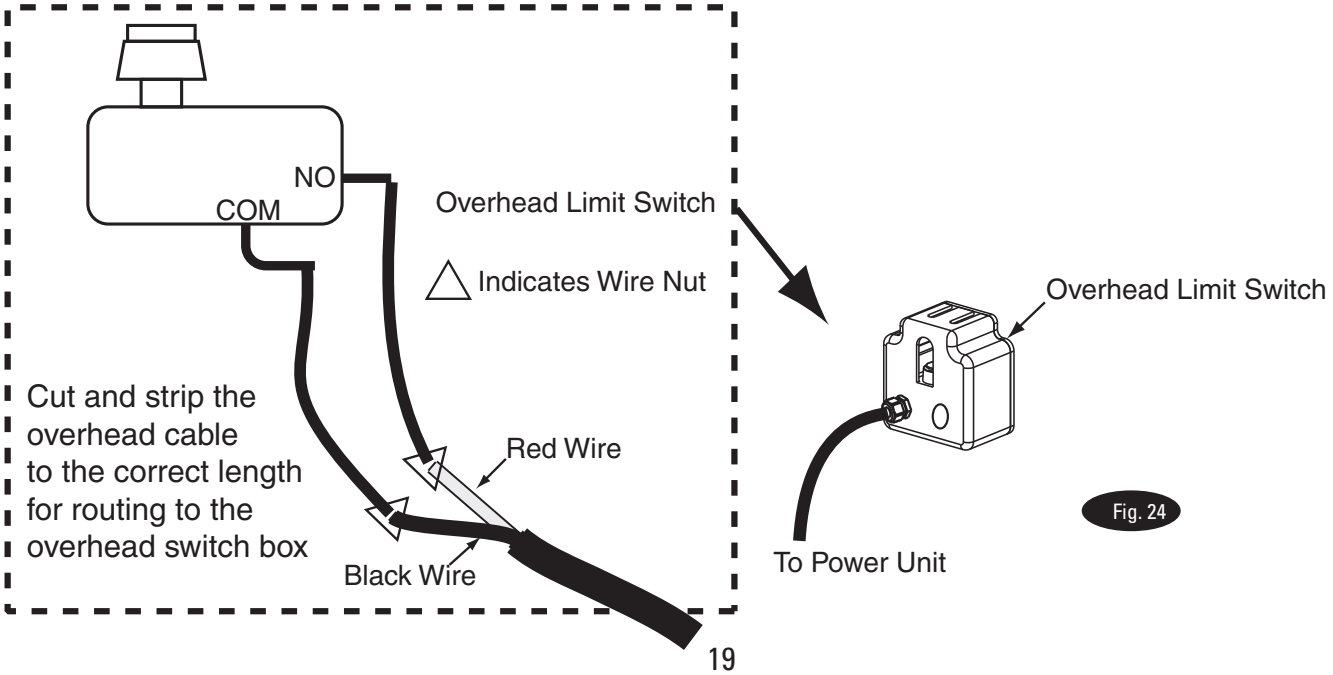


Fig. 24

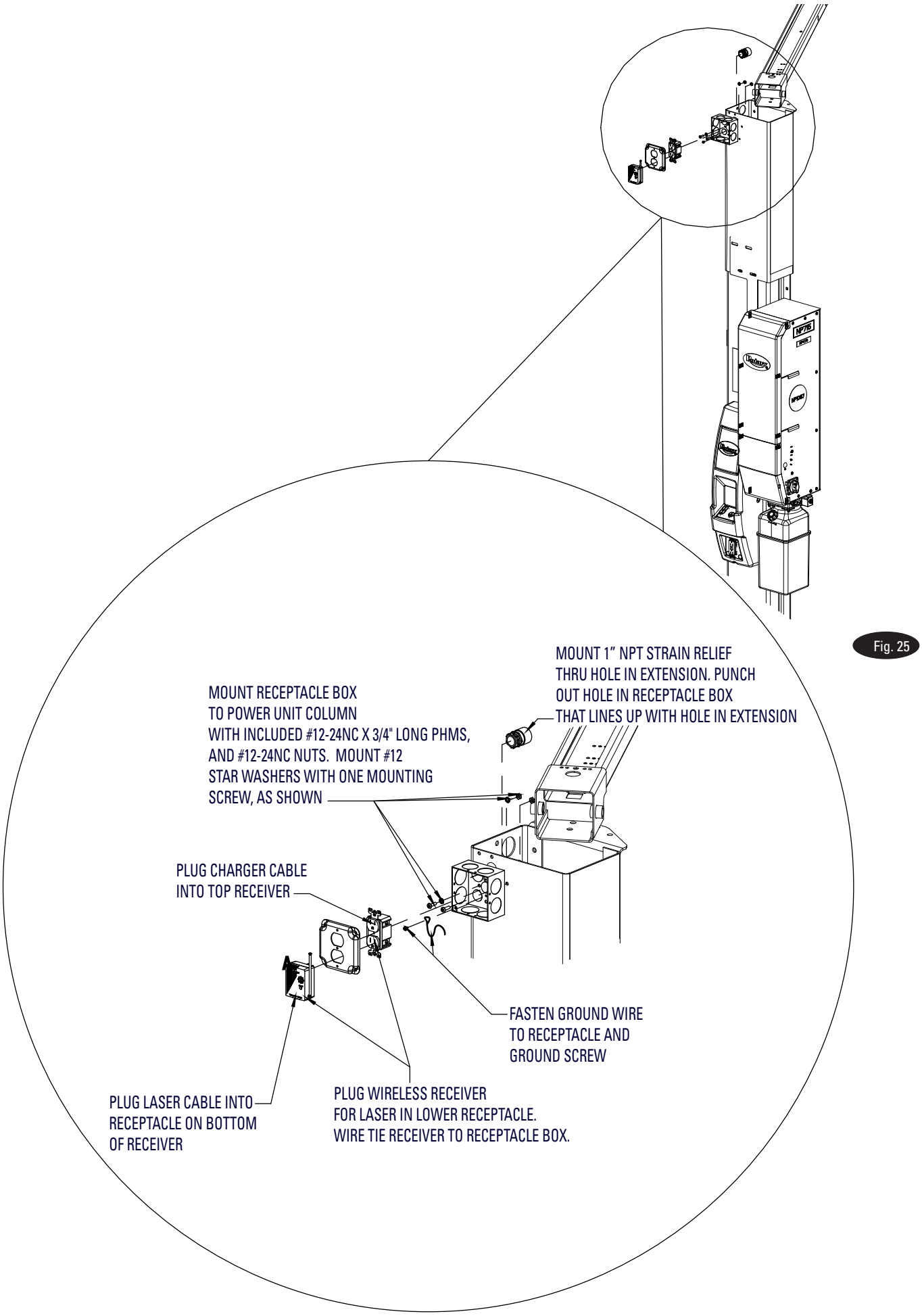

MOUNT 1" NPT STRAIN RELIEF
THRU HOLE IN EXTENSION. PUNCH
OUT HOLE IN RECEPTACLE BOX
THAT LINES UP WITH HOLE IN EXTENSION
MOUNT RECEPTACLE BOX
TO POWER UNIT COLUMN
WITH INCLUDED #12-24NC X 3/4" LONG PHMS,
AND #12-24NC NUTS. MOUNT #12
STAR WASHERS WITH ONE MOUNTING
SCREW, AS SHOWN
PLUG CHARGER CABLE
INTO TOP RECEIVER
FASTEN GROUND WIRE
TO RECEPTACLE AND
GROUND SCREW
PLUG LASER CABLE INTO
RECEPTACLE ON BOTTOM
OF RECEIVER
PLUG WIRELESS RECEIVER
FOR LASER IN LOWER RECEPTACLE.
WIRE TIE RECEIVER TO RECEPTACLE BOX.

Fig. 25

29. Superstructure: Raise carriage to a convenient height. Assemble the rear arm first. The superstructure and welded arm are mounted next. Then slide the superstructure into rear arm. The ends of the arms should be parallel with the inside edge of the pad. Insert arm pins, see Fig. 26. Attach arm pin tops to yoke using 5/16"-18NC x 1-1/4" LG. HHCS, 5/16" fender washers, and 5/16-18NC Nyloc lock nut through restraint actuator pin holes.

NOTE: Right side shown, Fig. 26, left hand side pad assembled just opposite.

30. Aligning Pads: With pads installed, measure the inside distance between the front end of the pads and the rear end of the pads. If they are not equal, pivot the pad structure slightly to achieve parallel pads. Be sure pads are parallel and in line front to rear, Fig. 27. Install (2) 5/16-18NC nuts onto the 5/16-18NC x 1-1/2" HHCS and run them all the way to the head. Place the tire hanger onto the arm and install the 5/16-18NC x 1-1/2" HHCS. Tighten bolts to 17 ft-lb. Tighten nuts against tire hanger to secure tire hanger to arm. Install the (3) 3/8-16 x 1" set screws (adding blue Loctite) into the rear arm and tighten to 25 ft-lb. If the pads cannot be completely aligned using the bolts and set screws, the column(s) can be rotated slightly by loosening the anchor bolt nut.

31. Final Anchoring: After pads are squared install the rest of the anchors per step 5 on page 4. Also refer to Figs. 3, 4, and 5.

32. Wheel Spotting Dish: Position wheel spotting dish, for appropriate lift model, as illustrated in Fig. 27. Drill (2) 3/8" holes 2-1/2" deep in concrete floor using holes in wheel spotting dish as guide. Drive both anchors, provided, into concrete to secure dish.

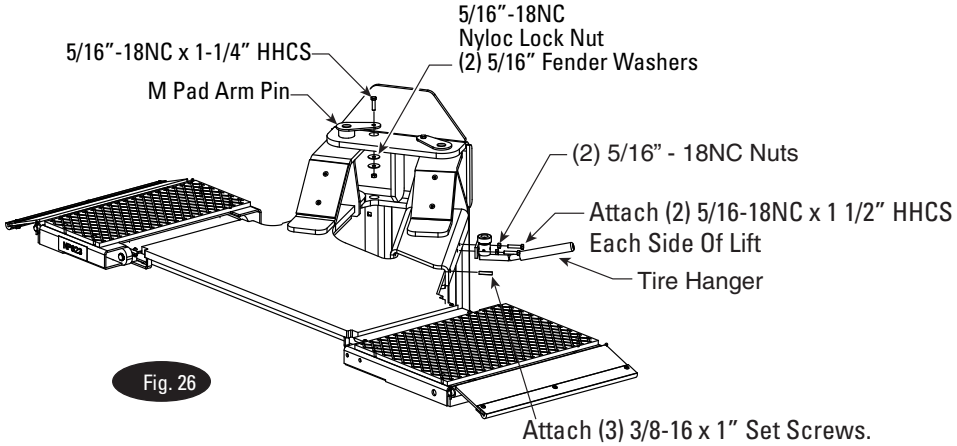


Fig. 26

Note: See seperate instruction booklit provided for installing pad leveling feet.

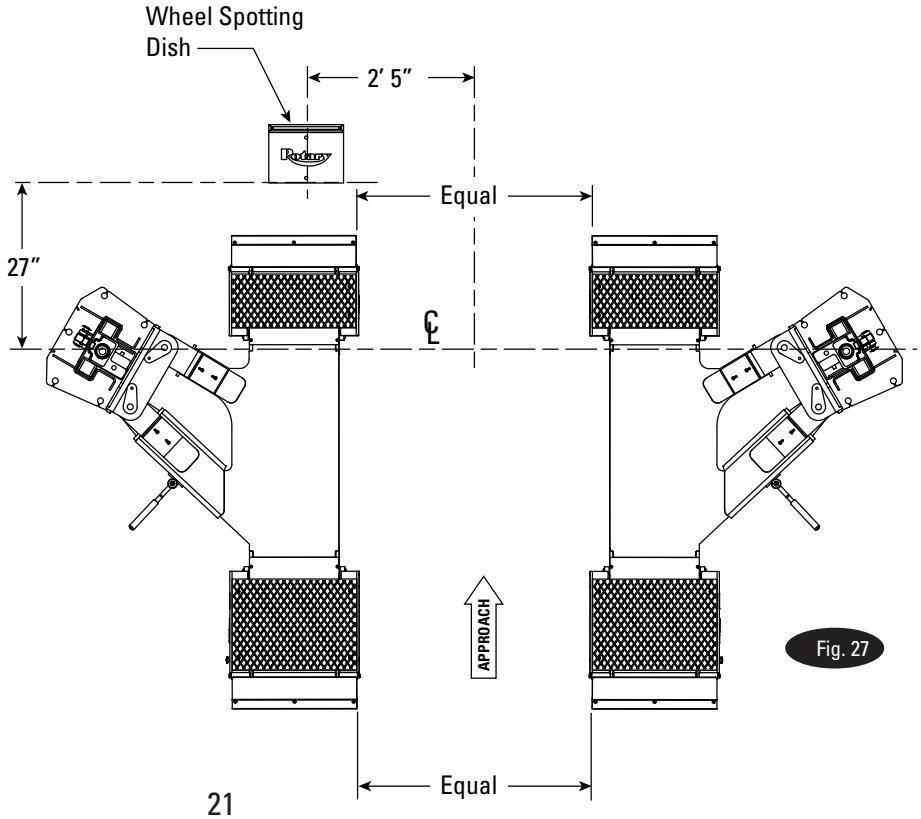


Fig. 27

33. Air Line Attachment: Route 1/2" air lines to air brackets and insert into 90° elbows in the back of the bulk heads, Fig. 28. Air lines should be run along the same route as the hydraulic hose on passenger side of lift and in overhead and connect to the union tee provided at top of either column, which ever is closer to the facility air.

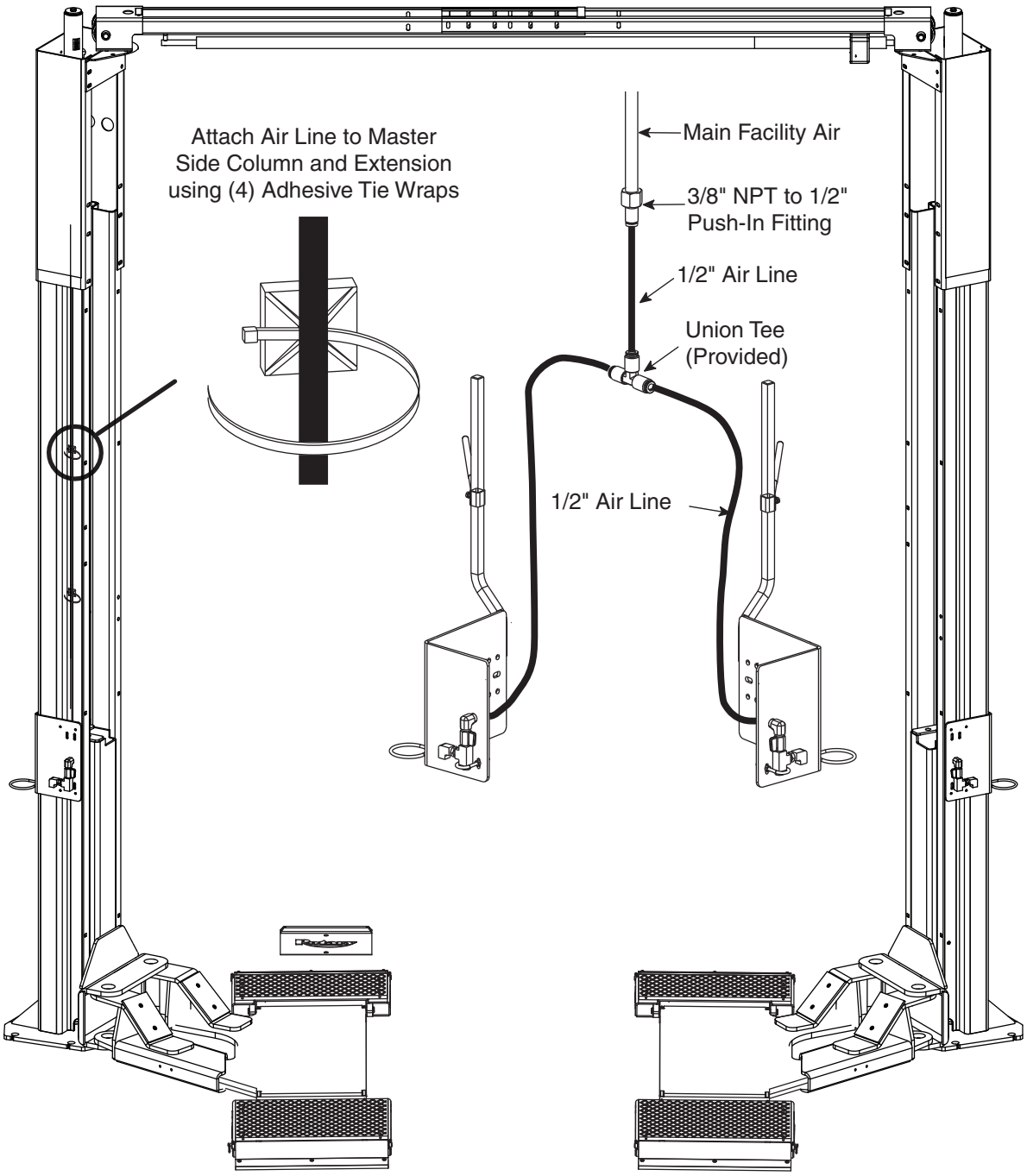


Fig. 28

34. Tire Hanger: Secure using (2) 5/16-18NC nuts, Fig. 29.

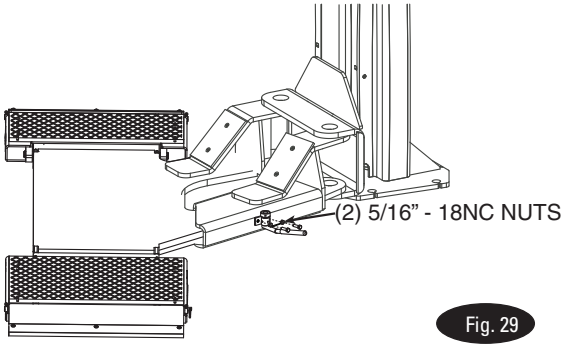


Fig. 29

Note: Adjust spring plunger so that wheel hook has resistance to rotation.

35. Pinch Point Decal Location: Install enclosed pinch point decals. Place (1) decal on each column, Fig. 30. Decals should be a minimum of 8” from the bottom of decal to the ground.

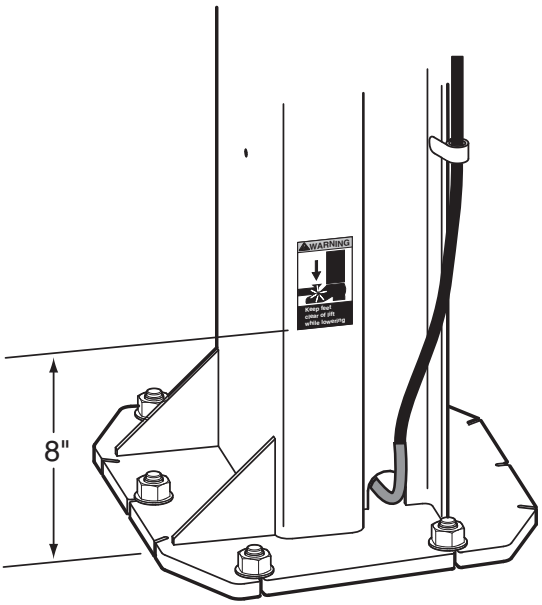
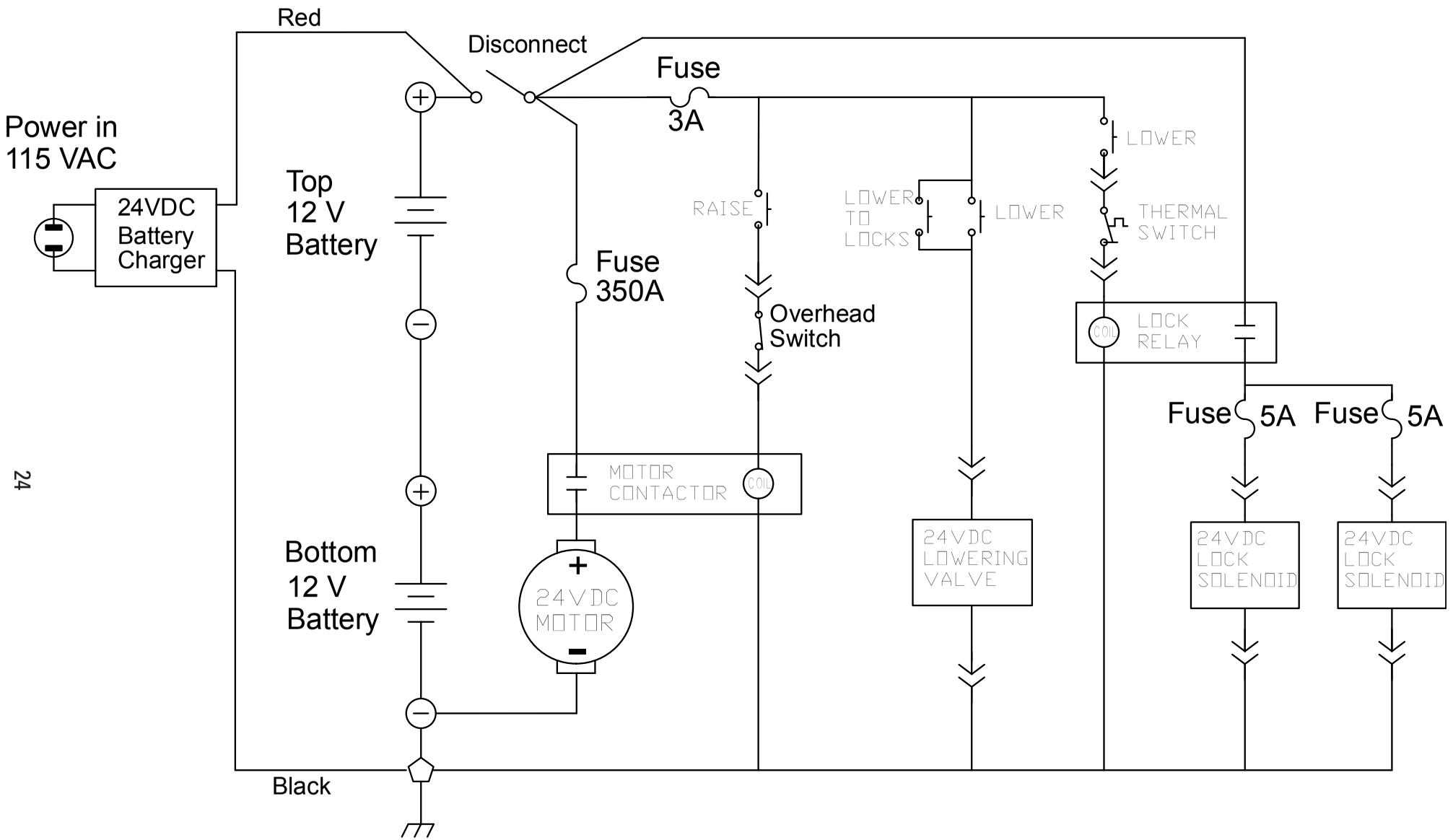


Fig. 30


Red
Disconnect
Fuse
3A
Power in
115 VAC
24VDC
Battery
Charger
Top
12 V
Battery
Fuse
350A
RAISE
LOWER
TO
LOCKS
LOWER
LOWER
THERMAL
SWITCH
Overhead
Switch
COIL
LOCK
RELAY
Fuse
5A
Fuse
5A
MOTOR
CONTACTOR
COIL
Bottom
12 V
Battery
24VDC
MOTOR
24VDC
LOWERING
VALVE
24VDC
LOCK
SOLENOID
24VDC
LOCK
SOLENOID
Black

37. Power Up: Turn disconnect to ON position from the power unit, Fig. 31.

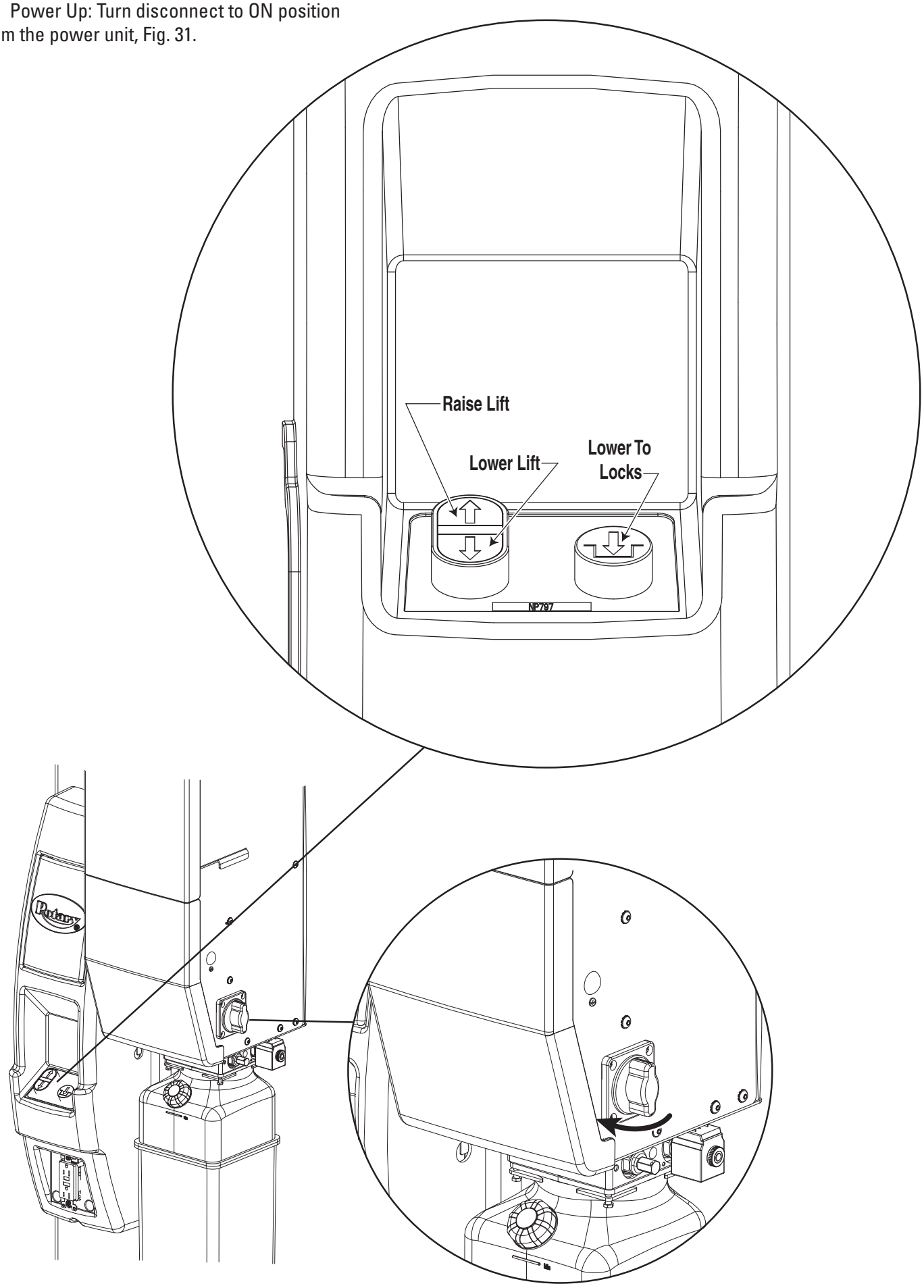


Fig. 31

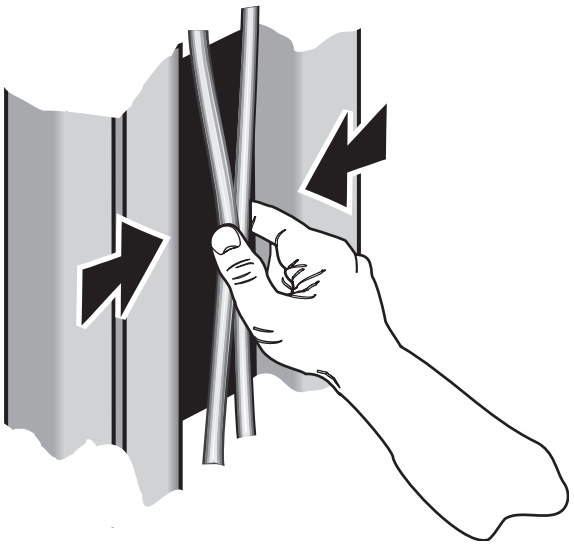
38. Oil Bleeding: Press ⬆ on touch pad and raise lift about 2 ft. Open cylinder bleeders approx. 2 turns, Fig. 11. Close bleeders when fluid streams. Torque values for the bleeders are 15 ft. lb. minimum and 20 ft. lb. maximum. Press ⬇ on the touch pad to fully lower lift.

39. Fill tank until it reaches the MIN_____ mark on the tank. System capacity is (13) quarts. Replace fill-breather cap.

⚠CAUTION If fill-breather cap is lost or broken, order replacement. Reservoir must be vented.

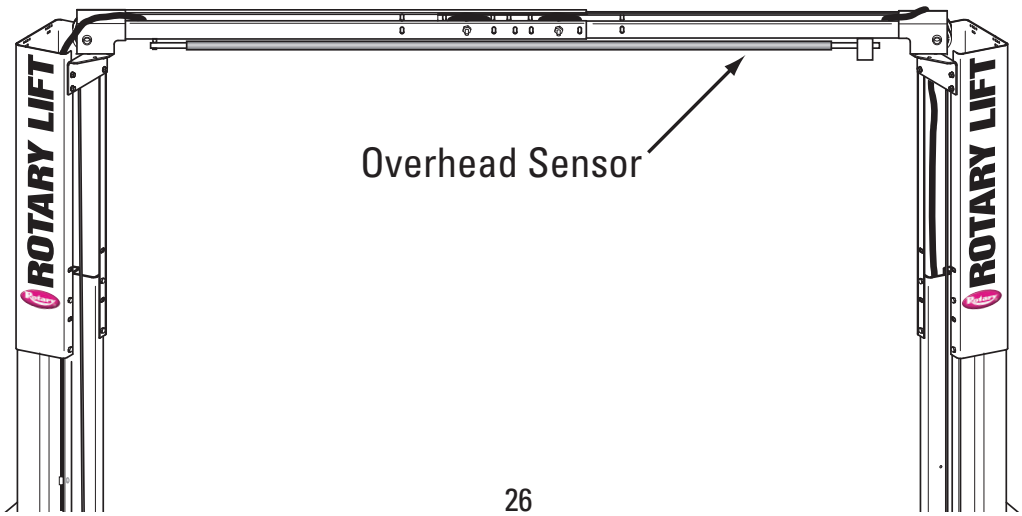
40. Pressure Test: Press ⬆ on touch pad and raise lift to full rise and keep motor running for 5 seconds. Stop and check all hose connections. Tighten or reseal if required. Repeat air bleeding of cylinders.

41. Equalizer Cable Adjustment: Press ⬆ on touch pad and raise lift to check equalizer cable tension. Below carriage, grasp adjacent cables between thumb and forefinger, with about 15 lbs. effort you should just pull the cables together. Adjust at upper tie-offs Fig. 17.



42. Overhead Sensor Testing: Check overhead sensor by running the lift up and having someone push the bar up, see below. Verify that Power Unit stops working when bar is raised.

43. Web covering and wire trough placement Fig. 28: Start by wire tying all the wires and hoses neatly and out of the way of the cables. Take one of the wire troughs and attach it to one of the control panels with two #8-32NC x 5/8" Lg. PHTS. Snap the front of the wire trough into the column. Next slide the top web cover up into the column extension and then down into the wire trough. NOTE: Align slot in web cover with hose clamps and bolts. Repeat for other column. Adjust covers accordingly to make sure hoses and wires are covered.



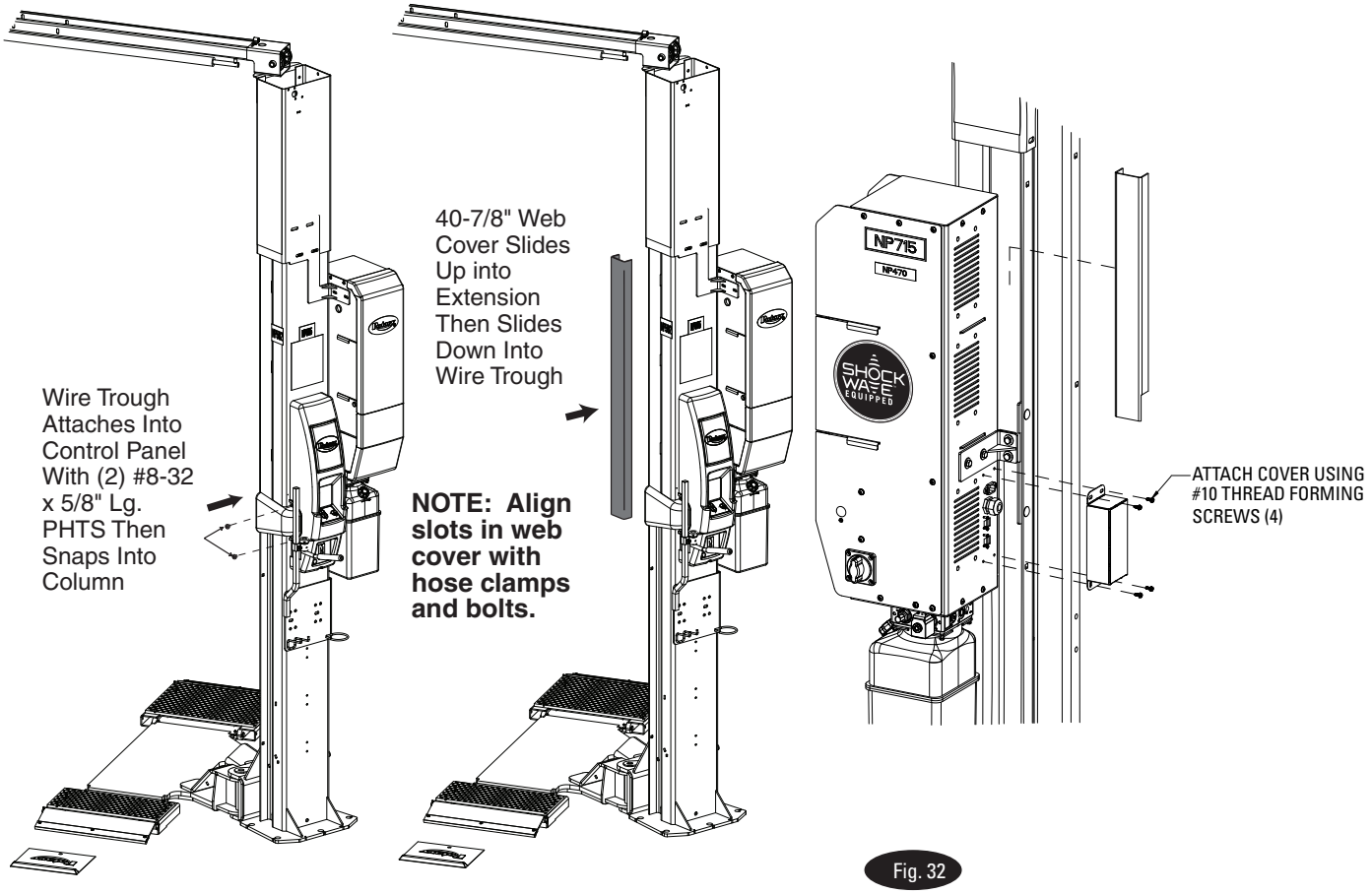
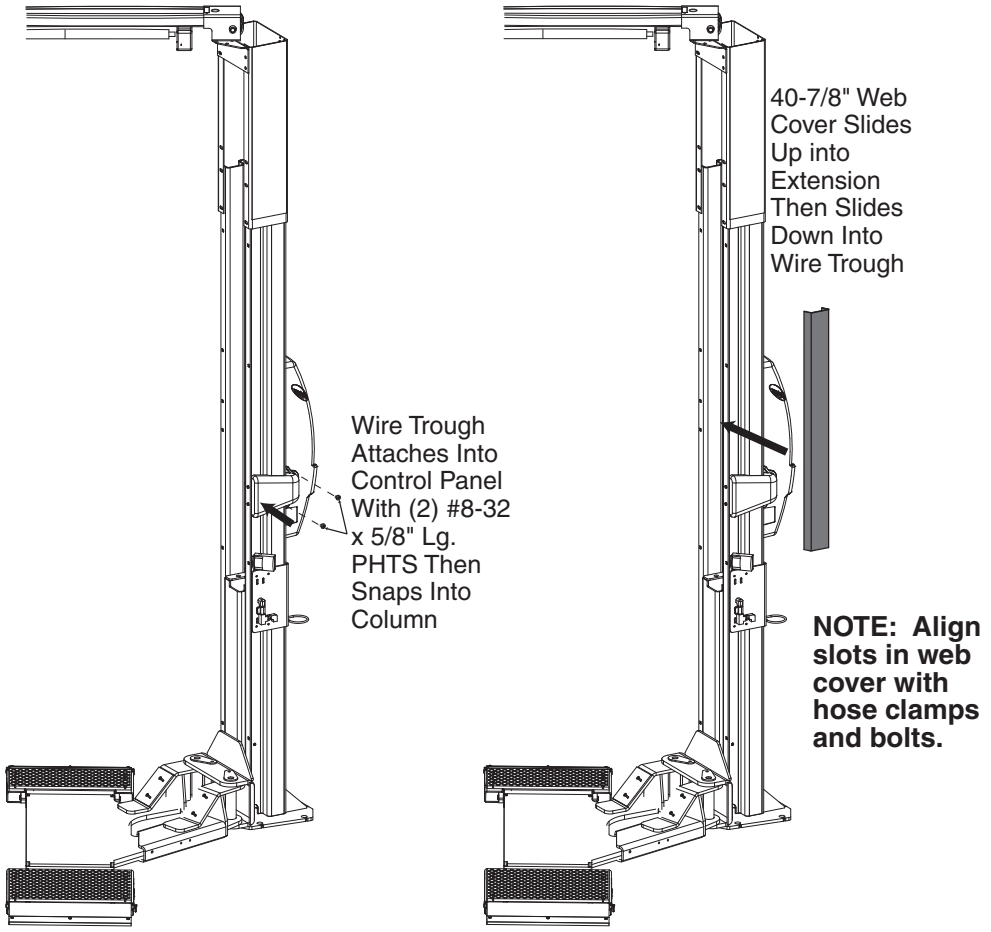

Wire Trough Attaches Into Control Panel With (2) #8-32 x 5/8" Lg. PHTS Then Snaps Into Column
40-7/8" Web Cover Slides Up into Extension Then Slides Down Into Wire Trough
NOTE: Align slots in web cover with hose clamps and bolts.
NP715
NP470
SHOCK WAVE EQUIPPED
ATTACH COVER USING #10 THREAD FORMING SCREWS (4)

Fig. 32


Wire Trough Attaches Into Control Panel With (2) #8-32 x 5/8" Lg. PHTS Then Snaps Into Column
40-7/8" Web Cover Slides Up into Extension Then Slides Down Into Wire Trough
NOTE: Align slots in web cover with hose clamps and bolts.

44. Door Bumper Installation:

A) Press long bumper on column edge, Fig. 33.

B) Press short bumper on top edge of carriage tube, Fig. 29.

C) Press 2 short bumpers on bottom part of air tool holder bracket, Fig. 33.

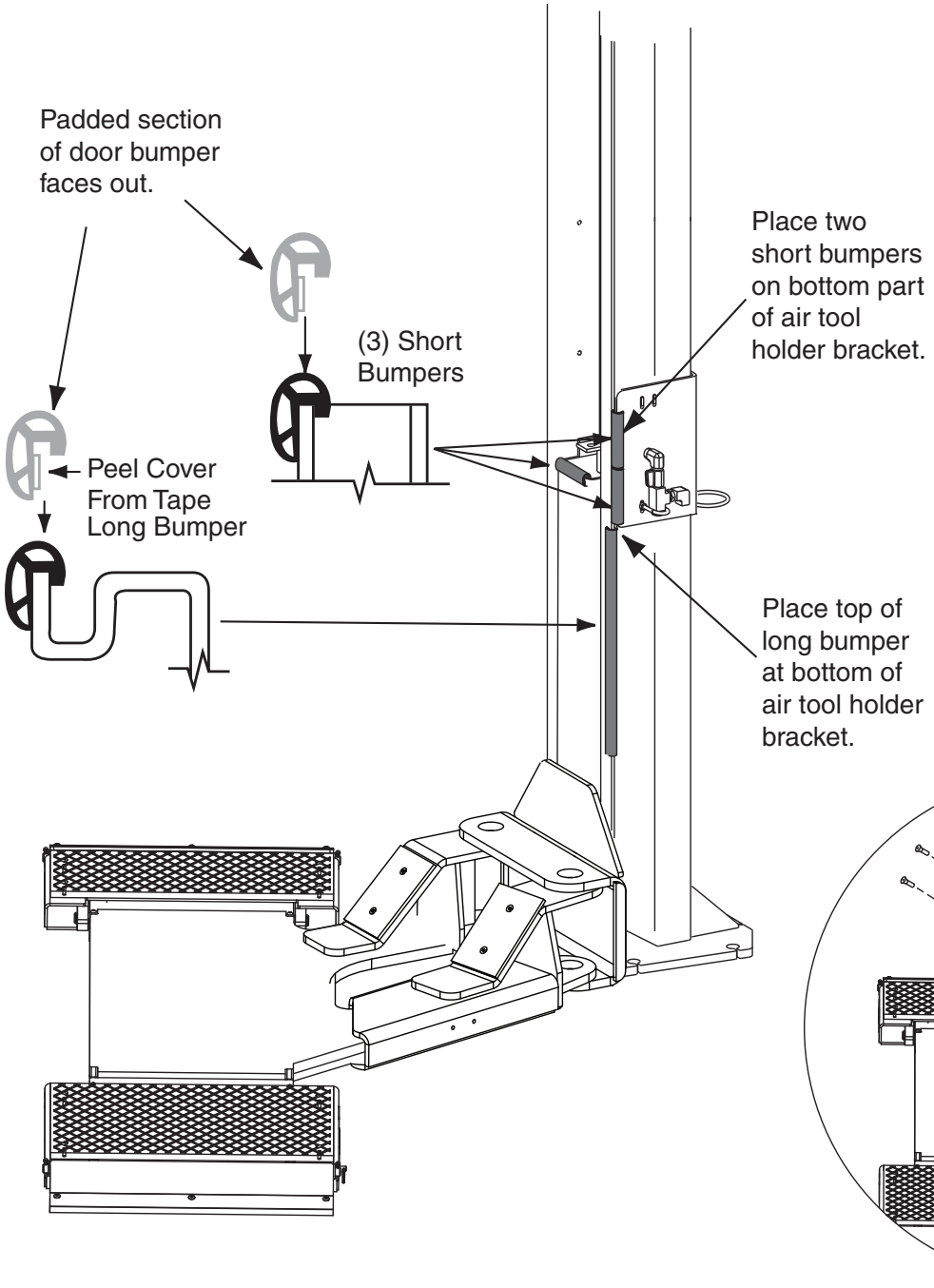
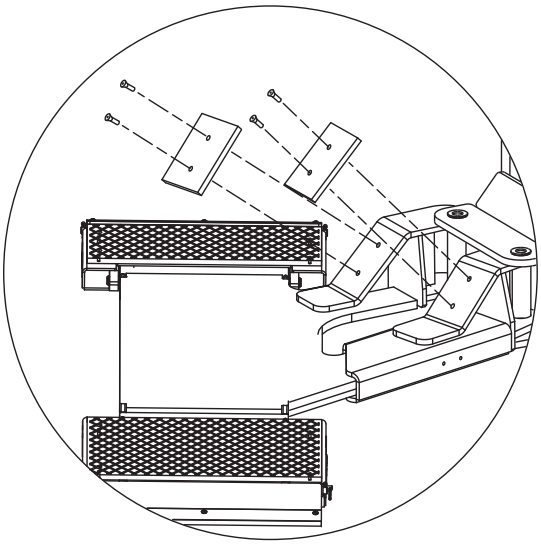


Fig. 33



45. Arm Pad Installation

A) Attach using (2) 1/4"-20NC flat head cap screws, Fig. 34, (4) places.

46. Base Plate Covers:

a. Attach base plate covers as shown in Figure 34. Make sure that the base covers engage the column forming and are slid downward until it sits on the floor.

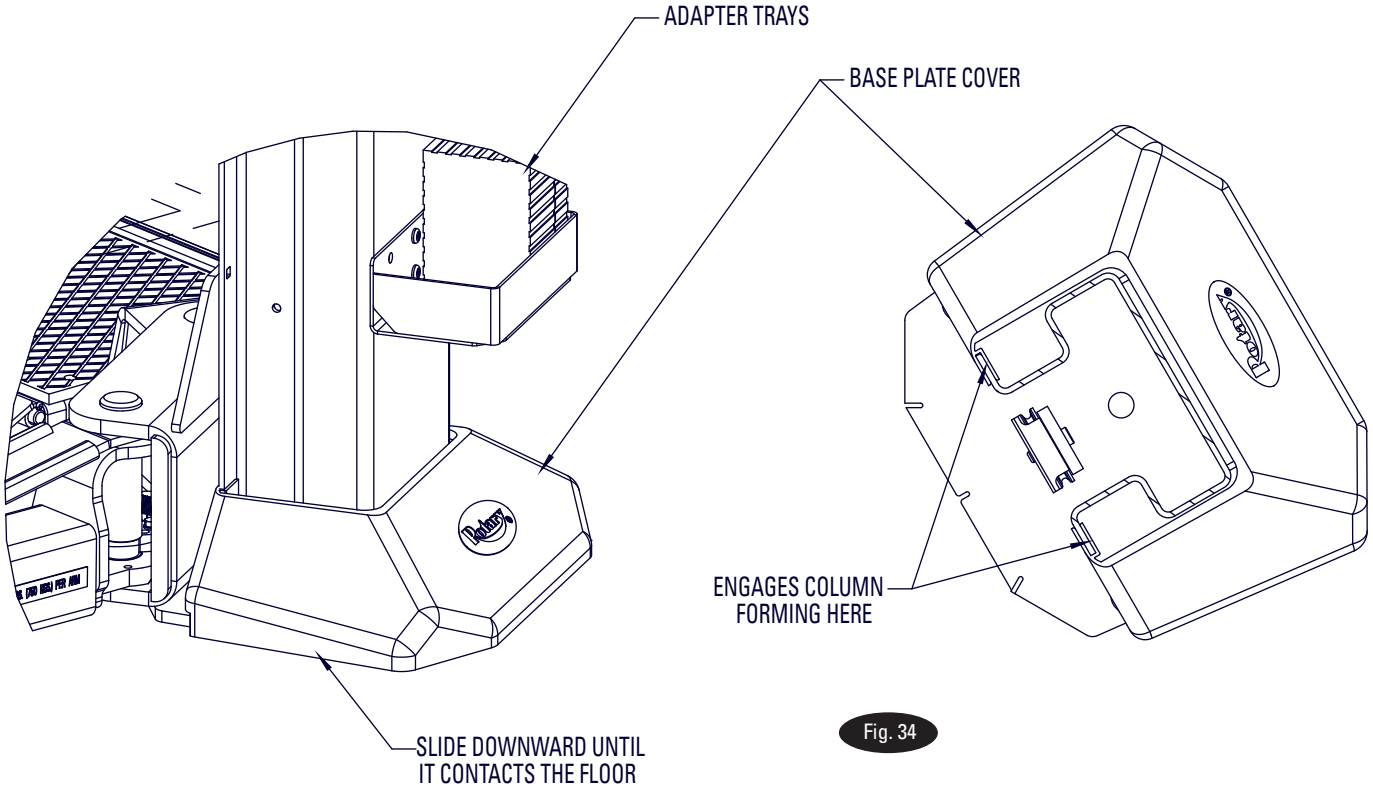


Fig. 34

47. Upon completion of the assembly of the lift, the lift is to be operated to assure proper function. Observe for locks operating in all locking positions, each side lifts equally, hydraulics do not leak, all electrical controls function as labeled, all pneumatics are functional and leak free, ramps rotate freely (if applicable), and proper clearances with all items in bay have been maintained.

Operate the lift with a typical vehicle and observe to assure the same items for proper functioning.

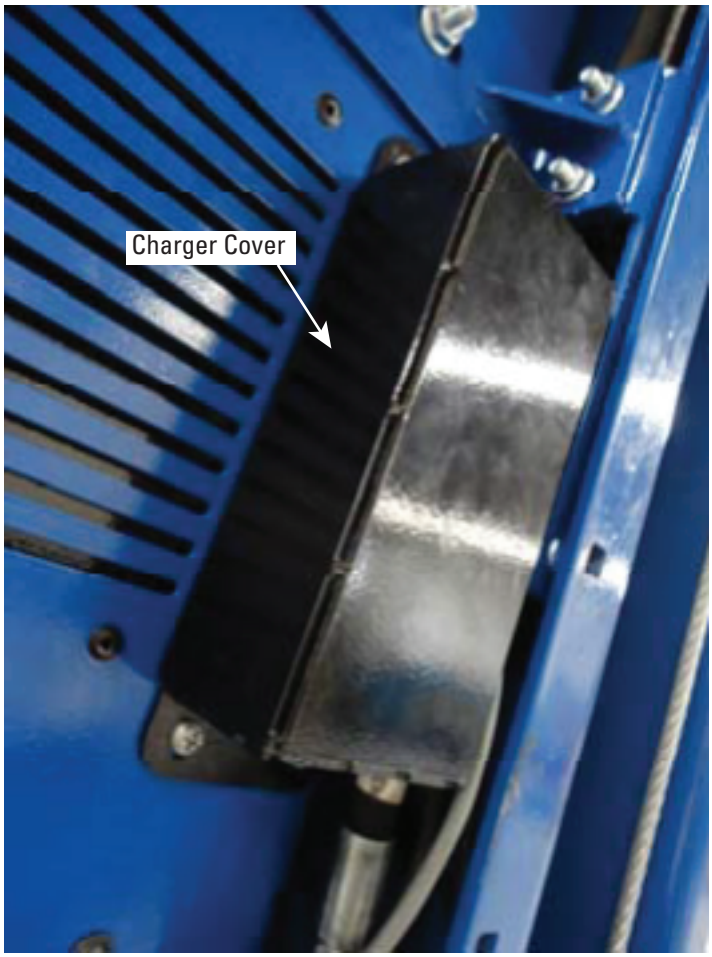
Battery test procedures for Rotary Shockwave lift.

*NOTE: Batteries need to be tested individually. Task should be done by 2 people. Items needed;

1. 6‘ Ladder (Minimum) w/ an assistant
2. #2 Phillips Screwdriver
3. 5/32 Allen Wrench
4. 9/16" socket, 1/4" drive
5. 1/4" Ratchet
6. 1/4" 6” Ratchet Extension
7. ED-18/GR-8 (Tester)

1. Turn power switch off.

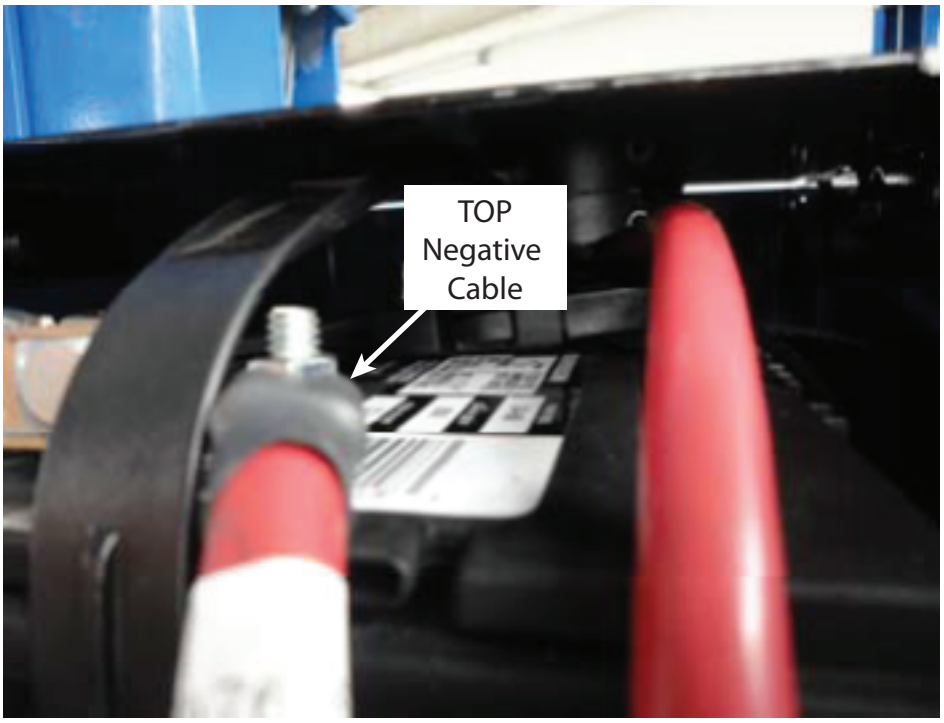
2. Remove Charger cable cover and disconnect charger power cable as shown.



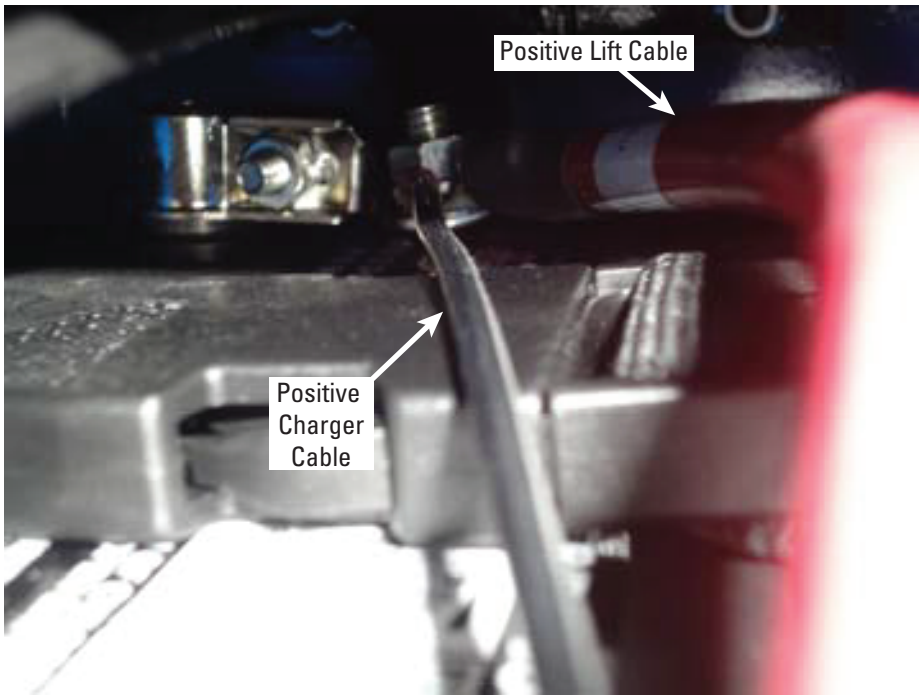
3. Remove battery cabinet front top cover using 5/32" Allen wrench. Remove the Allen head screws, 3 on each side.

4. Disconnect negative cable from bottom battery using 9/16" socket wrench, and move cable away from batteries.

5. Disconnect negative cable from top battery using 9/16" socket wrench.



6. Pull top battery tray & battery out just enough to gain access to positive battery post with a 9/16" socket wrench with 6" extension. Disconnect positive terminal post clamp from battery positive terminal.



7. Carefully slide battery tray & battery out of cabinet. Use attached handles.

8. Carefully slide bottom battery tray & battery out of cabinet. Use attached handles. Test batteries individually using ED-18/GR-8.

Reinstalling batteries is opposite of removal.

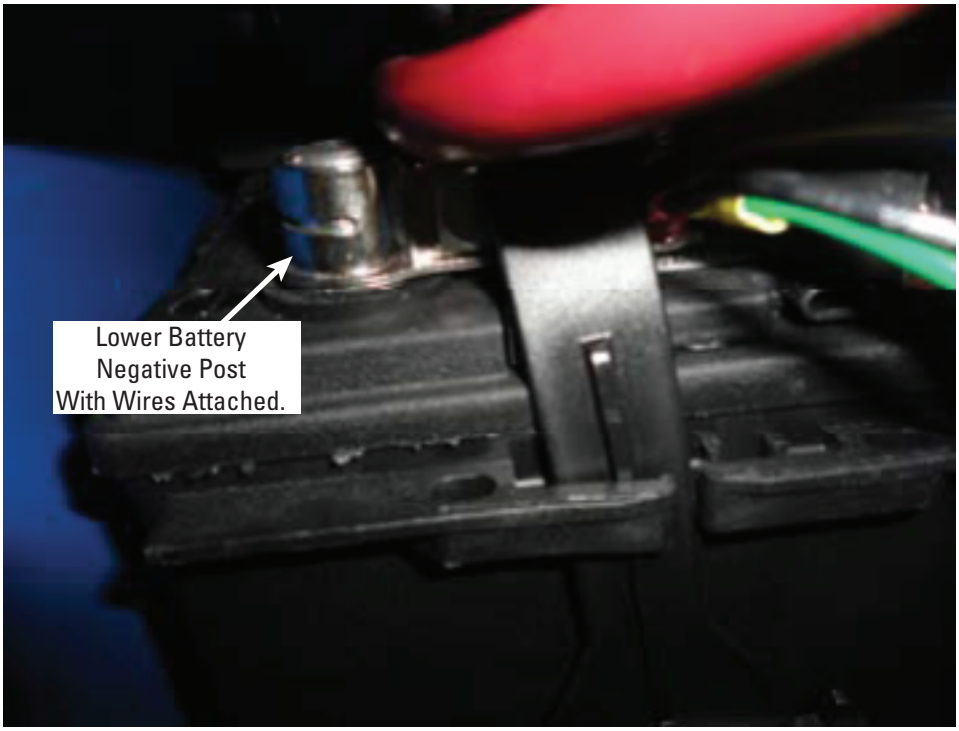
1. Carefully slide lower battery back into cabinet. Make sure to route positive cable to avoid contact with a metal surface. *NOTE; if battery is being replaced, swap positive cable over before installing battery.

2. Carefully slide top battery into cabinet far enough so that it is supported by shelf or cabinet.

3. Reconnect the positive cable clamp of lift w/ wire attached to the top battery positive post.

4. Reconnect positive cable clamp of lower battery to negative post of top battery.

5. Reconnect the negative cable clamp with wires attached to the lower battery negative post.



6. Reinstall the battery cabinet top cover.

7. Plug in the charger power cable and reinstall metal cover.

8. Turn on main power switch.

9. Test operation of lift.

Installer: Please return this booklet to literature package, and give to lift owner/operator.

Thank You

Trained Operators and Regular Maintenance Ensures Satisfactory Performance of Your Rotary Lift.

Contact Your Nearest Authorized Rotary Parts Distributor for Genuine Rotary Replacement Parts. See Literature Package for Parts Breakdown.

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